

# **Annual Report For Fiscal Year 2003**



**Center for  
Scientific  
Review**

**May 2004**

**Prepared by:**

Office of Planning, Evaluation, and Analysis  
Center for Scientific Review

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## Foreword

The Center for Scientific Review's (CSR) core mission is to identify the best science for NIH Institutes and Centers (ICs) to consider for funding.

This is CSR's first Annual Report. It is intended to provide a comprehensive look at the structure and organization that supports CSR's mission. Key information about the Center's science and business components including receipt and referral, review, management services, administration, planning and evaluation, and outreach for fiscal year (FY) 2003 are included.

I am pleased to present this annual report, which not only describes CSR's organization, activities, and accomplishments, but also acknowledges the thousands of scientists who contribute each year to the success of the NIH peer review system.



Brent Stanfield, Ph.D.  
Acting Director, Center for Scientific Review

April 2004

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## Introduction

The peer review system at the National Institutes of Health (NIH) is recognized as the cornerstone of the NIH extramural programs. It is the principal mechanism by which the funding Institutes and Centers (ICs) identify quality research that is highly worthy of support. The focal point of the NIH peer review system is the Center for Scientific Review (CSR).

CSR receives all competing applications for NIH as well as some for other components of the Department of Health and Human Services (DHHS) and assigns them to the potential funding component. NIH applications constitute about 93% of the total that CSR receives. Applications to be reviewed within CSR are further assigned to the Integrated Review Group (IRG) that will manage the review (an IRG is a cluster of scientifically related study sections). Following referral to the IRG, CSR staff performs further referral to the appropriate study section. As of September 2003 (the NIH fiscal year is October 1 to September 30) CSR had 22 IRGs, within which approximately 200 standing study sections were organized. Standing study sections are loosely defined as recurring meetings that are held each review round (three times per year) and they generally focus on investigator initiated research project mechanisms (R01, R02, R21, etc.), small business applications (R41, R42, R43, R44), or fellowship mechanisms (F31, F32, F33).

As of fiscal year (FY) 2003, CSR manages the initial peer review of approximately 70% of the over 64,000 grant applications submitted annually to the NIH.<sup>1</sup> The remainders are reviewed in the ICs. In general, CSR reviews most investigator-initiated applications (e.g., R01, fellowships, small business applications); while ICs review applications in response to special programmatic initiatives or utilizing mechanisms that fund research highly mission-specific for the IC (e.g., Requests For Applications, multicenter clinical trials, etc.)

In executing its mission, it should be recognized that CSR is uniquely dependent on the scientific community that it serves. Over 12,000 external experts served on CSR's study

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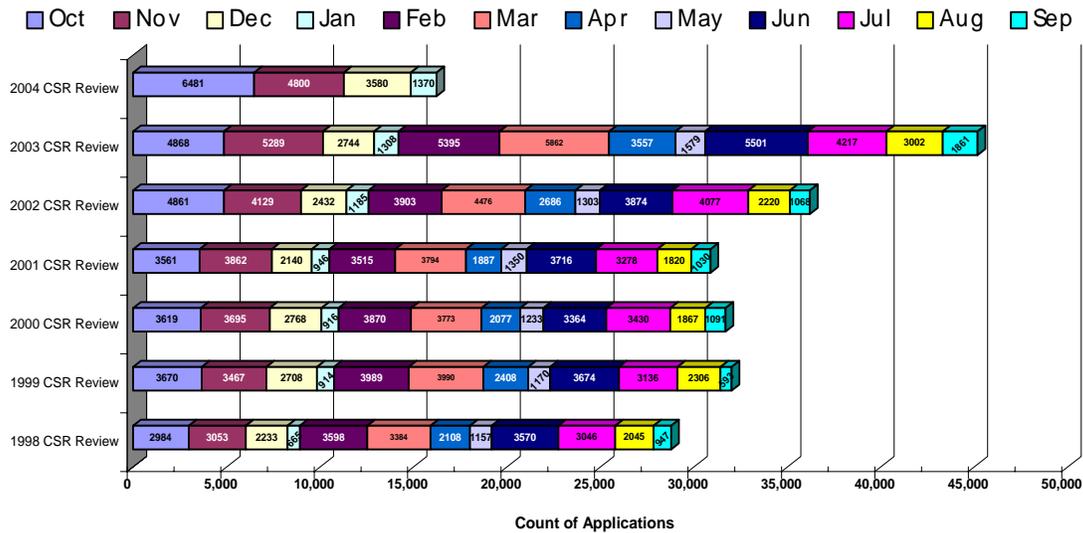
<sup>1</sup> Based on the number of applications received in FY 2003. Not all applications received in FY 2003 were reviewed within the fiscal year.

sections in FY 2003 (see Appendix 1). 1,800 of these served as regular reviewers on chartered committees, a commitment that involves attending up to three meetings a year over four years. Nearly 9,000 reviewers served on Special Emphasis Panels, and 4,000 served as temporary members on chartered panels<sup>2</sup>. These reviewers came from over 1,500 institutions and organization from across the United States and the world, including academic institutions and medical schools, local, state and federal government agencies and offices, private industry, small businesses, nonprofit organizations and foundations, hospitals, and research organizations. In addition to serving as peer reviewers, many scientists from the community also served on CSR committees, panels, and working groups assisting CSR in reorganizing and evaluating its review structure and practices.

### FY 2003 Highlights and Milestones

FY 2003 was eventful for CSR in a number of ways. An overarching development that affected most every aspect of CSR operations was the huge increase in the number of applications.

Figure 1. Applications Assigned to CSR for Review by Month of Receipt<sup>3</sup>



<sup>2</sup> Many CSR reviewers served in multiple capacities. For instance, regular reviewers often also served on Special Emphasis Panels or as temporary members on other study sections when their expertise was needed in those areas.

<sup>3</sup> Partial data for FY 2004 are shown to demonstrate continuation of trends observed in FY 2001 and 2002.

This increase was so steep that workloads mounted sharply for CSR staff despite very vigorous recruiting and hiring. Indeed, the number and complexity of applications that CSR received in FY 2003 warranted a change in CSR's review Division structure and a new review Division was created. Despite the challenge of meeting unprecedented workloads, CSR is proud to have persevered in advancing several initiatives. For example, CSR's peer review structure reorganization continued to move forward ahead of schedule and the first study sections redesigned in the reorganization met for the first time in FY 2003 (<http://www.csr.nih.gov/review/reorgact.asp>). There was also a change in leadership for CSR in FY 2003. Dr. Ellie Ehrenfeld announced in September 2003 that she was stepping down as CSR Director. Dr. Brent Stanfield was named Acting Director of CSR by NIH Director Dr. Elias Zerhouni until a new CSR Director is named. While these events give some context to the year, they certainly do not tell the whole story. The following includes summaries of a number of significant events and highlights in FY 2003 that had substantial impact across CSR:

**Applications:** CSR reviewed over 41,000 applications in 2003, a record that represents an increase of over 50% from fiscal year 1998 and a 23% increase over fiscal year 2002<sup>4</sup>. It should be noted that the complexity and breadth of science within applications also continued to increase during this period, making them more difficult to review. Table 1 shows the distribution of applications reviewed by CSR during 2003 by Council round and by grant mechanism. (See Appendix 2 for a detailed list of applications reviewed by CSR.)

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<sup>4</sup> Peer Review Notes, January 2004 (<http://www.csr.nih.gov/prnotes/jan04.pdf>); CSRAC minutes, September 22-23, 2003 (<http://www.csr.nih.gov/DRGAC/sep03min.doc>)

**Table 1.** Applications reviewed by CSR in 2003, by Council round and by mechanism<sup>5</sup>

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects:</b>					
<b>R01</b>	7,401	8,800	9,704	25,905	62.6%
<b>Small Business (R41, R42, R43, R44)</b>	1,834	2,165	2,330	6,329	15.3%
<b>R21</b>	752	1,072	1,908	3,732	9.0%
<b>Other Research Projects (R03, R13, R15, R24, R25, R33, R34, R37, R55)</b>					
	510	579	660	1,749	4.2%
<b>Fellowship Programs (F30, F31, F32, F33)</b>					
	640	1166	988	2,794	6.7%
<b>Research Career Programs (K01, K02, K05, K08, K12, K14, K22, K23, K24, K25)</b>					
	70	81	103	254	0.6%
<b>Research Program Projects and Centers (P01, P20, P40, P41)</b>					
	23	57	20	100	0.2%
<b>Miscellaneous Mechanisms (D43, G08, S10, T15, T35, U01, U13, U24, U44, U54)</b>					
	222	45	268	535	1.3%
<b>Total</b>	11,452	13,965	15,981	41,398	100.0%

**Personnel:** CSR employed 515 staff members in fiscal year 2003. Of these, 384 were federal employees and 131 were contractors. Employee turnover was relatively high in FY 2003. CSR lost 49 federal employees during the fiscal year but hired 65 new employees, 59 of whom were review staff. Turnover of contract staff was around 50%. SRA turnover was relatively high at the beginning of the fiscal year but this trend abated by the beginning of calendar year 2003. Indeed, between January 1, 2003 and January 1, 2004 (the last 3 quarters of FY 2003 and the 1st quarter of FY 2004) CSR hired 56 SRAs and had a net increase of 49 SRAs at the end of the period. Table 1 shows the breakdown of employees by Division within CSR.

<sup>5</sup> In this and subsequent tables presenting application information by Council Round and funding mechanism, fiscal year refers to the year in which the applications were reviewed. All data were obtained from IMPACII and include only applications that were reviewed in CSR study sections. Applications that were deferred or withdrawn prior to review were not included.

**Table 2.** CSR employees in 2003 by Division or Office; includes both Federal and contract staff<sup>6</sup>

<b>Division</b>	<b>Number of employees</b>
Division of Biologic Basis of Disease	112
Division of Clinical and Population-based Studies	91
Division of Molecular and Cellular Mechanisms	102
Division of Physiology and Pathology	80
Division of Receipt and Referral	66
Division of Management Services	67
Office of the Director	20

**Scientific Review Division restructuring:** In response to the increasing grant application load and increasing complexity of research proposed in applications, CSR restructured its three review divisions into four new divisions: 1) Division of Biologic Basis of Disease; 2) Division of Molecular and Cellular Mechanisms; 3) Division of Physiology and Pathology; and 4) Division of Clinical and Population-Based Studies. In 2003 Dr. Elliot Postow became Director of the new Division of Biologic Basis of Disease, and Dr. Anita Miller Sostek was named Director of the Division of Clinical and Population-Based Studies. Dr. Donald Schneider and Dr. Michael Martin are the Directors of the Division of Molecular and Cellular Mechanisms and the Division of Physiology and Pathology, respectively.<sup>7</sup>

**Reorganization:** Two reorganization milestones were met in FY 2003. First, study sections within the first IRG designed in the Panel on Scientific Boundaries for Review (PSBR) reorganization held their first meetings in FY 2003 (<http://www.csr.nih.gov/review/reorgact.asp>). Three new study sections of the Hematology IRG met for the first time in June 2003.<sup>8</sup> Also in FY 2003, the last two Study Sections Boundaries (SSB) teams met to design study sections for the new Biological, Chemical and Macromolecular IRG and the Cell Biology IRG.<sup>9</sup>

<sup>6</sup> Division totals do not sum to 515 because some employees moved between Divisions in 2003 and are counted in both places. There were also three contract employees that could not be assigned to a Division or Office.

<sup>7</sup> Peer Review Notes, January 2003 (<http://www.csr.nih.gov/prnotes/Jan03.pdf>)

<sup>8</sup> Peer Review Notes, September 2003 (<http://www.csr.nih.gov/prnotes/Sept03.pdf>)

<sup>9</sup> Peer Review Notes, May 2003 (<http://www.csr.nih.gov/prnotes/Mav03.pdf>)

**Internet Assisted Review (IAR) System:** A new IAR system that is integrated into the central NIH review data records system was released by NIH for use by reviewers on August 1, 2003. The new system offers a number of new or expanded features that are useful for reviewers and enhance the ability of NIH staff to integrate reviews into summary statements. Approximately 25% of CSR study sections began using this new system during the October and November 2003 round of study section meetings. Remaining study sections will begin using the IAR by June 2004.<sup>10</sup>

**Review Internship Program:** In fiscal year 2003 the CSR Intern Program was opened for the first time to applicants from outside NIH. The program accepted a total of 11 interns in fiscal year 2003 and a total six interns had completed the program at the end of FY 2003. The program has been highly successful and several interns have been hired as review staff at CSR or into other positions in science administration. CSR received 45 internship applications for the July 2003 receipt date (up from 23 in 2002), interviewed 20 applicants, and 9 interns were accepted into the program and started in January 2004.<sup>11</sup>

**Communication and Outreach Activities:** Four new outreach initiatives were advanced in 2003: 1) a mock study section video entitled "Inside the NIH Grant Process" to help applicants and new reviewers understand how NIH grant applications are reviewed was completed (<http://www.csr.nih.gov/Video/Video.asp>); 2) an exhibit booth display to enhance outreach activities at scientific meetings; 3) a series of Web-based "Staff Stories" to aid the recruitment of new staff members ([http://www.csr.nih.gov/staff\\_stories/Staffstories.asp](http://www.csr.nih.gov/staff_stories/Staffstories.asp)); and 4) an exhibit of CSR reviewer and staff photos to show the human side of the NIH review process. CSR also published the *Peer Review Notes* newsletter prior to each review round (<http://www.csr.nih.gov/prnotes/prnotes.asp>), posted news items on its Web site (<http://www.csr.nih.gov/NewsFlash/newsflash.asp>), issued NIH press releases, and operated an e-mail list to send reorganization news to over 160 scientific societies.

<sup>10</sup> Peer Review Notes, September 2003 (<http://www.csr.nih.gov/prnotes/Sept03.pdf>)

<sup>11</sup> CSRAC minutes, May 12-13 2003 (<http://www.csr.nih.gov/DRGAC/mav03min.doc>) and January 27-28 (<http://www.csr.nih.gov/DRGAC/drgac.asp>); Noni Byrnes, 2/5/2004

All CSR scientists are encouraged to attend at least two professional meetings in their respective fields to further communications with the scientific community. CSR scientists provided presentations on peer review, conducted mock study sections, or participated in panel discussions on grantsmanship at over 50 of these meetings in 2003.

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## Office of the Director

### Highlights in Fiscal Year 2003

As mentioned above, Dr. Ellie Ehrenfeld stepped down as CSR Director in September 2003 and Dr. Brent Stanfield was named Acting Director. Also in 2003, Ms. Chris Wisdom retired from her position as CSR's Executive Officer. Mr. David Whitmer, formerly with the National Heart, Lung and Blood Institute, was recruited for the position. Mr. Whitmer also serves as Director of the Division of Management Services.

Dr. Theodore Kotchen, CSR Special Advisor on Clinical Research, with support from the Office of Planning, Evaluation and Analysis (OPEA) completed an extensive study of the outcomes of review for clinical research applications submitted to the NIH for the May 2002 and October 2002 Council rounds. An article summarizing the results was completed in 2003 and submitted to the Journal of the American Medical Association (JAMA) in October 2004. The paper, entitled "NIH Peer Review of Grant Applications for Clinical Research" was authored by Dr. Kotchen, Teresa Lindquist, Dr. Karl Malik, and Dr. Ellie Ehrenfeld and was published in the February 18, 2004 volume of JAMA (<http://jama.ama-assn.org/cgi/reprint/291/7/836.pdf>). Dr. Kotchen and OPEA continue to explore the review process as it relates to clinical research.

In May of 2003 OPEA completed an extensive evaluation of the reorganized neuroscience study sections, which included information from IRG Working Groups, surveys of applicants and program staff, and internal data on the assignment of applications and the distribution of priority scores. This evaluation was presented to the CSR Advisory Committee at its May 2003 meeting and was published in final form on the CSR website ([http://www.csr.nih.gov/events/Neuroscience\\_Evaluation\\_7\\_03\\_03.pdf](http://www.csr.nih.gov/events/Neuroscience_Evaluation_7_03_03.pdf)). OPEA also began efforts to conduct a similar evaluation of the reorganized behavioral and social sciences study sections.<sup>12</sup>

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<sup>12</sup> CSRAC minutes, September 22-23, 2003 (<http://www.csr.nih.gov/prnotes/Sept03.pdf>) and May 12-13, 2003 (<http://www.csr.nih.gov/prnotes/Mav03.pdf>)

As part of CSR's outreach and education efforts, Don Lockett, CSR's Communication Officer, had over 100 interactions with reporters in 2003, coordinating the dissemination of CSR news and information. In addition, he published over 35 articles in the *NIH Record* to announce important personnel changes in the Center.

**CSR Office of the Director Staff:**

**Dr. Ellie Ehrenfeld**  
**Dr. Brent Stanfield**

**Director**  
**Deputy Director**

Michelle Arku #	Secretary
Margarite Curtis-Farrell	Equal Employment Manager
Chuck Dumais	Program Analyst
Dr. Theodore Kotchen	Special Advisor on Clinical Research
Teresa Lindquist	Program Analyst
Terry Little *	Secretary
Donald Lockett	Communications Director
Dr. Karl Malik	Assistant to the Director/ Acting Director OPEA
Mary Elizabeth Mason	Secretary
Nicholas Moriarty	Program Analyst
Tam Ngo	Program Assistant
Dr. Jean Paddock *	Associate Director of Program Coordination
Anne Phillips *	Program Analyst
Anne Stroh	Ethics Coordinator
Pamela Sullivan	Office Manager
Terra Vinson	PSBR Project Coordinator
Keri Lyn Wall *	Presidential Management Intern
Alice (Chris) Wisdom *	Executive Officer
David Whitmer #	Executive Officer

\* left CSR in fiscal year 2003  
 # joined CSR in fiscal year 2003

## **Division of Receipt and Referral**

The Division of Receipt and Referral (DRR) is responsible for the receipt, initial data entry, and assignment for both review and potential funding consideration for all competing grant applications submitted to NIH and applications submitted to some other components of DHHS. DRR received 64,187 applications in FY 2003, an all time high for the Division and a more than 20% increase over FY 2002 (which itself showed an increase of about 20% compared to FY 2001). All of the applications in FY 2003 were received in traditional paper format. However, DRR staff spent considerable time in the discussions planning for the development of the electronic Competitive Grant Application Process (CGAP) as well as ongoing monitoring of problems and enhancements for the IMPAC II system.

The increase in the numbers of applicaitons in 2003, the last year in the five-year doubling of the NIH budget, was undoubtedly due to a number of factors. Many categories of applications were increased (investigator-initiated research, fellowships, small business, small and exploratory grants, predoctoral fellowships, etc.). A large number of applications of many different types were received on biodefense topics. DRR handled Loan Repayment applications for the first time. A large number of RFAs were issued by all of the ICs and NIH's newest institute, the National Institute of Biomedical Imaging and Bioengineering (NIBIB) in particular issued RFAs that received exceptionally large responses. The establishment of three new ICs (NIBIB, the National Center for Alternative and Complementary Medicine, and the National Center for Minority Health and Health Disparities) in previous years has led to investigators in new areas of biomedical and behavioral research applying to NIH.

### **Changes Expected in the Division in Fiscal Year 2004**

DRR experienced a 15% increase in grant applications in the first four months of fiscal year 2004. There was a 25% increase in new applications submitted in October 2003 and about 600 more Loan Repayment applications were received than in 2003. Although the doubling of the NIH budget is at an end, CSR sees no end yet to the increasing number of

applications. Historically the receipt window of February through May is the heaviest. The applications responding to the Roadmap initiatives will be received in 2004 and these are expected to generate a large number of responses. It seems reasonable to estimate that about 70,000 applications will be received in FY 2004.

**Changes in Receipt and Referral Personnel in 2003**

The full-time professional staff in DRR was stable in 2003. There was some turnover in the Referral Officer group due to retirement, appointment of a new IRG Chief, or a move to another position. The staff in Application Receipt and Project Control typically show a fair amount of turnover and 2003 was no exception; many of these individuals are students or are just starting out in the workforce. In 2004 DRR expects to have a total of seven full time professional staff with the addition of an Associate Director/Research Integrity Officer and fifteen Referral Officers\*.

**Division Staff:**

**Dr. Suzanne E. Fisher**  
**Dr. Janet Newburgh**

**Director**  
**Deputy Director**

Carol Campbell  
 Dr. Narayani Ramakrishnan  
 Dr. Kalman Salata  
 Dr. Ronald Suddendorf

Referral Health Scientist Administrator  
 Assistant Chief  
 Assistant Chief  
 Assistant Chief

Alice Adams  
 Olajumoke Akindolie  
 Dr. Sally Amero  
 Onica Andrews #  
 Oluwatoyin Atala #  
 Darrion Beckles #\*  
 Martin Bibum  
 Dr. John Bishop  
 Karen Booker #  
 Dr. Bill Bunnag  
 Vilanique Charles  
 Dr. Cathleen Cooper  
 Trinetta Curtis  
 Antoinette D'Amato

Mail Clerk, Data Entry  
 Student, Data Entry  
 Referral Officer  
 Mail Clerk, Data Entry  
 Mail Clerk, Data Entry  
 Mail Clerk, Data Entry  
 Mail Clerk, Data Entry  
 Referral Officer  
 Mail Clerk, Data Entry  
 Referral Officer  
 Deputy Chief, Application Receipt and Project Control  
 Referral Officer  
 Mail Clerk, Data Entry  
 Referral Administrative Assistant

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\* Referral Officers also serve in the Review Divisions as Scientific Review Administrators.

Carlotta Daniels	Mail Clerk, Data Entry
Yitateku Dejene	Mail Clerk, Data Entry
Dr. Dharam Dhindsa	Referral Officer
Pollenetta Douglas	Mail Clerk, Data Entry
Jonelle Duke *	Mail Clerk, Data Entry
Kimberly Farrall Cragg	Grant Applications Assistant
Sherry Frost *	Mail Clerk, Data Entry
Dr. Joanne Fujii	Referral Officer
Hazel Greene # *	Mail Clerk, Data Entry
Declan Hampstead *	Mail Clerk, Data Entry
Alberta Hawkins	Mail Clerk, Data Entry
Phyllis Jackson # *	Mail Clerk, Data Entry
Karen Jobe #	Mail Clerk, Data Entry
Dr. Gordon Johnson *	Referral Officer
Tamara Johnson	Student, Mail Clerk (part time)
Dr. Daniel R. Kenshalo	Referral Officer
Jeannette Klein	Mail Clerk
Dr. Michael Knecht	Referral Officer
Sherri Kum # *	Mail Clerk, Data Entry
Gineaa Lindo #	Mail Clerk, Data Entry
Luis Melgar	Mail Clerk, Data Entry
Marie Michel	Mail Clerk, Data Entry
Dr. Ramesh Nayak	Referral Officer
Dr. Janet Nelson	Referral Officer
Dr. Kenneth Newrock *	Referral Officer
Dr. Angela Ng	Referral Officer
Dr. Michael Nunn *	Referral Officer
Dr. Martin Padarathsingh	Referral Officer
William Phelps	Student, Mail Clerk (part time)
Dr. Gopa Rakhit	Referral Officer
Christopher Rampersaud *	Mail Clerk, Data Entry
Dr. Arnold Revzin	Referral Officer
Leah Roberts	Chief, Application Receipt and Project Control
Funmi Romiluyi *	Mail Clerk, Data Entry
George Roundtree *	Mail Clerk, Data Entry
Dr. Michael Sayre *	Referral Officer
Renay Staton	Mail Clerk, Data Entry
Dr. Paul Strudler	Referral Officer
Sheena Thomas	Grants Technical Assistant
Monica Todd	Mail Clerk, Data Entry
Lee Ann Torrington # *	Mail Clerk, Data Entry
Jose Trejo	Mail Clerk, Data Entry
Asad Ullah #	Mail Clerk, Data Entry
Ruth Walton	Supervisor, Application Receipt
Blair Williams #	Mail Clerk, Data Entry
Robert Wilson	Mail Clerk

\* left CSR in fiscal year 2003

# joined CSR in fiscal year 2003

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## **Division of Biologic Basis of Disease**

The Division of Biologic Basis of Disease (DBBD) is responsible for the review for scientific merit of grant applications submitted to NIH on the etiology, mechanism of action, and treatment of a variety of diseases that can compromise the health of the population. The subject matter being studied ranges from single molecules to groups of people and hence the scientific protocols encompass the full range of biological, biomedical and behavioral research from studies of molecular structure through physiological studies, translational studies, clinical protocols to, in the case of AIDS, studies of behavioral approaches to prevention and treatment. In 2003 DBBD consisted of six integrated review groups (IRGs): 1) AIDS and AIDS-Related Diseases (AARR ); 2) Endocrinology and Reproductive Sciences (ENR); 3) Infectious Diseases and Microbiology (IDM); 4) Immunological Sciences (IMM); 5) Nutritional and Metabolic Sciences (NMS); and 6) Oncological Sciences (ONC). In 2003, DBBD study sections held a total of 494 meetings and reviewed 11,697 applications.

### **Changes in the Division During Fiscal Year 2003**

DBBD was established in 2002 and became fully operational early in 2003 when Dr. Elliot Postow was appointed as Division Director. The six IRGs that comprise the division had previously been part of the other three review divisions: IMM and IDM had been in the Division of Molecular and Cellular Mechanisms, ENR and NMS had been in the Division of Physiology and Pathology, and ONC and AARR had been in the Division of Population-Based Studies.

As part of the reorganization of review responsibilities recommended by PSBR, five of the IRGs in DBBD were in the process of reorganization during 2003. (AARR was previously reorganized as part of the process through which CSR absorbed some of the scientific review responsibilities from the institutes that comprised ADMHA.) ONC completed the reorganization and its 13 new study sections held their first meetings in October, 2004. Final review guidelines for IMM, IDM and EMNR (a PSBR-recommended combination of ENR and NMS) were approved by the CSR Advisory Committee and provisional slates for

these IRGs are currently in development. In addition, CSR assumed the responsibility for all reviews for the Fogarty International Center and formed the ICP-3 study section.

### **Changes in the Division Anticipated for Fiscal Year 2004**

The combination of ENR and NMS into EMNR will take place with the organization of study sections in these IRGs. Slates will be developed for the new study sections in IMM, IDM, and EMNR, and the first meetings of the new study sections will take place.

Increasing workloads in the ONC IRG will require the creation of at least one additional study section. With creation of the Vaccines against Microbial Diseases (VMD) study section in IMM, vaccine-related applications currently reviewed in the AARR IRG will move to the IMM IRG and only AIDS-related vaccine applications will remain in the AARR IRG.

### **IRG Chief and Review Staff Personnel Changes in Fiscal Year 2003**

There were no changes in IRG Chiefs in DBBD in 2003. The following SRAs left DBBD during the fiscal year: Allen Stoolmiller, Jeanne Ketley, Eugene Zimmerman, Leda Cummings, Sami Mayyasi, Phillip Perkins, Shen Yang, June Traicoff. DBBD recruited 24 new SRAs during the fiscal year, including Theresa Montini, Bruce Maurer, Harold Brodie, Eugene Zimmerman, Jeanne Ketley, Mary Bell, Mark Rubert, Hilary Sigmon, Richard Kostriken, Rolf Menzel, Joseph Mosca, Diane Stassi, Bahiru Gametchu, Tina McIntyre, Fouad El-Zaatari, Leda Cummings, John Meyer, Zhiqiang Zou, Morris Kelsey, Eun Cho, Jian Wang, Manzoor Ahmed, Tera Bounds, and Hungyi Shau.

#### **Division Staff:**

#### **Dr. Elliot Postow**

Sandra Buchanan  
Kathy Dinterman

#### **Director**

Administrative Review Assistant  
Review Technology Assistant

## AIDS And Related Research Integrated Review Group

The AIDS and AIDS-Related Diseases (AARR) IRG reviews basic, translational, clinical, and behavioral studies on the prevention, initiation, promotion, progression, diagnosis and treatment of AIDS/HIV and AIDS-related diseases. This includes studies of: the molecular and cell biology, immunology, pathogenesis, and epidemiology of the virus and associated opportunistic infections; the development of drugs, vaccines, and other therapies; and behavioral and social science approaches to preventing and evaluating the consequences of AIDS and HIV. In 2003 AARR reviewed 2,052 applications (see Table 3). It held 121 meetings over the course of the fiscal year and 713 reviewers served on its review panels.

### IRG Staff:

#### Dr. Ranga V. Srinivas

#### Chief

Mark Baron  
 Dr. Abraham Bautista  
 Rebecca Feuerherd  
 Dr. Bruce Maurer #  
 Dr. Eduardo Montalvo  
 Dr. Theresa Montini #  
 Jennifer Peddicord  
 Iris Perry  
 Franklin Porter #  
 Dr. Kenneth Roebuck #  
 Dr. Mark Rubert #  
 Adebusola Shomoye #  
 Dr. Hilary Sigmon #  
 Dr. Ranga V. Srinivas  
 Marva St. Hill  
 Dr. Mary Clare Walker

Grants Technical Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Scientific Review Administrator  
 Scientific Review Administrator  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Lead Grants Technical Assistant  
 Grants Technical Assistant  
 Scientific Review Administrator  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Scientific Review Administrator  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Scientific Review Administrator

# *Joined CSR in fiscal year 2003*

**Table 3.** Applications reviewed by AARR by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	305	383	393	1,081	52.7%
<b>Small Business (R41, R42, R43, R44)</b>	81	91	107	279	13.6%
<b>R21</b>	118	147	166	431	21.0%
<b>Other Research Projects (R03, R13, R15, R25, R34, R37)</b>	40	39	55	134	6.5%
<b>Fellowship Program (F31, F32)</b>	6	25	15	46	2.2%
<b>Research Career Programs (K01, K02, K05, K14, K22, K23, K24)</b>	4	11	19	34	1.7%
<b>Research Program Projects and Centers (P01)</b>	2		2	4	0.2%
<b>Miscellaneous Mechanisms (D43, U01)</b>	6		37	43	2.1%
<b>Total</b>	562	696	794	2,052	100.0%

**The AIDS and Related Research IRG includes the following study sections:**

AIDS Molecular and Cellular Biology (AMCB)

Scientific Review Administrator: Dr. Kenneth Roebuck

AMCB (formerly AARR-1) reviews applications focused on the molecular, structural, and cellular biology of HIV and related lentiviruses and retroviruses. These areas of research encompass studies of the biochemistry and genetics of HIV and viral infection, replication, and regulation. This study section also reviews applications related to viral aspects of pathogenesis, non-immune host responses and factors, and identification of viral/host targets for gene-based and other therapeutics and diagnostics.

In 2003, AMCB primarily reviewed applications for NIAID (79.4%), NCI (5.0%), and NIGMS (8.9%), and small numbers of applications for NIAAA, NIDCR, NIDDK, NICHD, NHBLI, NIMH, NINDS, and the Fogarty International Center.

AIDS Immunology and Pathogenesis (AIP)

Scientific Review Administrator: Dr. Abraham Bautista

AIP (formerly AARR-2) reviews applications related to the immunology and pathogenesis of HIV and related lentiviruses/retroviruses. Research includes cellular and humoral responses to HIV, and mechanisms of transmission, initiation, and establishment of HIV infection at a cellular and tissue level, including animal models. This study section also reviews studies of immune mechanisms of host resistance, mechanisms of vaccine-induced immunity, and the effect of various

infectious and other co-factors on pathogenesis, immune responses, and disease progression.

In 2003, AIP primarily reviewed applications for NIAID (86.2%) and reviewed small numbers of applications for NCI, NIDCR, NIDDK, NICHD, NHBLI, NIMH, NINDS, and NCRR.

#### AIDS Discovery and Development of Therapeutics (ADDT)

Scientific Review Administrator: Dr. Eduardo Montalvo

ADDT (formerly AARR-3) reviews applications concerned with the design, discovery, and development of therapeutics for HIV/AIDS. The science encompassed includes preclinical development of gene-based therapeutics and diagnostics, traditional drugs, targeted drug design and modeling based on structure, pharmacology, toxicology, drug delivery, and assays to measure drug/therapeutic levels. This study section also reviews applications related to the development of vector and cellular aspects/components of gene-based and immune reconstitution therapies for HIV/AIDS, viral resistance, and interactions of drugs/therapeutics used to treat/prevent HIV infection and associated complications, as well as other used/abused agents.

In 2003, ADDT primarily reviewed applications for NIAID (63.8%), NCI (5.2%), and NIGMS (18.1%), and reviewed small numbers of applications for NCCAM, NIDCR, NIDDK, NEI, NICHD, NHBLI, and the Fogarty International Center.

#### AIDS-associated Opportunistic Infections and Cancer (AOIC)

Scientific Review Administrators: Dr. Eduardo Montalvo

AOIC (formerly AARR-4) reviews applications on opportunistic infections and cancers associated with HIV and AIDS. The science encompasses pathogenesis, immune responses, animal models, and molecular epidemiology and molecular characterization of AIDS-associated opportunistic infections and cancers. This study section also reviews applications that focus on the interactions of opportunistic infections and cancers with HIV infection, and those focused on the identification and development of targets for therapy and prophylaxis for opportunistic infections.

In 2003, AOIC primarily reviewed applications for NIAID (50.4%), NCI (29.1%), NIDCR (5.7%) and NHLBI (8.5%) and reviewed small numbers of applications for NIDDK, NEI, NIMH, NCRR and the Fogarty International Center.

NeuroAIDS and Other End-organ Diseases (NAED)

Scientific Review Administrator: Dr. Abraham Bautista

NAED (formerly AARR-5) reviews applications on the effects of HIV infection and of AIDS on the nervous system and other organs and systems, and the actions of abused substances, their cognate ligands, and hormones on cellular immune processes. This includes neural-chemokine, neural- cytokine, neuroendocrine, and neuroimmune relationships and similar interactions in other organ systems. The pertinent areas of research also include modulation of the HIV, retroviral, and related diseases by drugs and other co-factors.

In 2003, NAED reviewed applications primarily for NIDA (19.2%), NIHM (45.0%), and NINDS (23.3%) and also reviewed small numbers of applications for NIAAA, NIAID, NCCAM, NCI, NIDCR, NIDDK, NHLBI, and NCRR.

AIDS Clinical Studies and Epidemiology (ACE)

Scientific Review Administrator: Dr. Ranga V. Srinivas

ACE (formerly AARR-6) reviews studies of epidemiology, natural history, in vivo pathogenesis, and transmission of HIV infection in defined cohorts, and clinical studies/trials related to HIV/AIDS and associated opportunistic infections and cancers. This study section also reviews research related to nutrition and wasting, complementary and alternative medicine approaches, and clinical development of therapeutics, prophylactic agents, and biomedical interventions to treat or prevent HIV/AIDS and associated opportunistic infections and cancers. In addition, it addresses the development of diagnostics, clinical assays, and mathematical models.

In 2003, ACE primarily reviewed applications for NIAID (42.0%), NCI (6.5%), NIDA (10.1%), NIDDK (13.0%), and NICHD (10.9%), and reviewed a small number of applications for NIAAA, NIA, NIDCR, NEI, NHLBI, NIMH, NINDS, NCRR and the Fogarty International Center.

Behavioral and Social Science Approaches to Preventing HIV/AIDS (BSPH)

Scientific Review Administrator: Dr. Theresa Montini

BSPH (formerly AARR-7) reviews studies of behavioral and social science aspects of HIV transmission and infection in the individual, group, and community. Specifically, it reviews studies of risk factors, antecedents, and correlates of HIV infection, as well as basic behavioral, epidemiologic, and social science studies of mechanisms and factors at the individual and community levels. In addition, it reviews research on the development and testing of the efficacy of psychosocial interventions to prevent HIV infection in at-risk populations.

In 2003, BSPH primarily reviewed applications for NIDA (23.3%), NICHD (30.8%), and NIHM (31.4%), and also reviewed a small number of applications for NIAAA, NIA, NINR and the Fogarty International Center.

### Behavioral and Social Consequences of HIV/AIDS (BSCH)

Scientific Review Administrator: Dr. Mark Rubert

BSCH (formerly AARR-8) reviews studies of behavioral and psychosocial aspects of HIV infection, disease progression, and sequelae in the individual, group, and community. In addition, it reviews epidemiological, survey, health services, and other social science research of psychosocial factors of HIV disease. These outcome studies include the effectiveness of interventions, the consequences of infection, and the effects of HIV infection and AIDS on the individual, family, and community.

In 2003, BSCH primarily reviewed applications for NIAID (7.4%), NIDA (19.0%), NICHD (8.3%), NIMH (47.1%), and NINR (10.7%), and also reviewed a small number of applications for NIAAA, NIA, NCCAM, NCI, and NIDCR.

### HIV/AIDS Vaccines (VACC)

Scientific Review Administrator: Dr. Mary Clare Walker

VACC is focused on the review of development activities for vaccines against HIV and AIDS-associated opportunistic infections. This area of "vaccinology research" is both broad and application-oriented as it relates to crosscutting issues encountered in the refinement and development of vaccines. These areas include the construction, modification, and improvement of vaccines and vaccine delivery approaches; development of techniques/approaches to assess immune responses to a vaccine; and the assessment of safety/reactogenicity/toxicity/ immunogenicity in animal/human models as well as efficacy in animal models. The applications reviewed in this Study Section should be clearly distinguished from basic pathogenesis and immunology oriented research designed to increase understanding of a specific pathogen and/or mechanisms of immune responses, a necessary process that precedes the development of a vaccine.

In 2003 VACC primarily reviewed applications for NIAID (89.9%); it also reviewed a small number of applications for NIAMS, NCI, NIDA, NIDCR, NIBIB, NICHD, NHLBI, and the Fogarty International Center.

International and Cooperative Projects 3 (ICP-3)

Scientific Review Administrator: Dr. Hilary Sigmon

ICP-3 addresses AIDS-Related and other international collaborative research applications supported by the Fogarty International Center and other special programs supported by the various institutes. The applications are broad and involve the biomedical, biochemical, neurological, physiological, clinical, and public health sciences.

All applications reviewed by ICP-3 in 2003 were for the Fogarty International Center.

Small Business Activities

Small business applications dealing with vaccines or AIDS-related research are reviewed by Special Emphasis Panels within the AARR IRG. Two panels generally are convened each round, one to review grants on biological sciences and the other to review grants on social/behavioral sciences.

**Endocrinology and Reproductive Sciences Integrated Review Group**

The Endocrinology and Reproductive Sciences (ENR) IRG reviews basic and clinical applications on endocrinology and reproductive biology, including developmental animal and human endocrinology, general clinical endocrinology, biochemical and molecular endocrinology, reproductive medicine, and fetal-maternal relationships. In 2003, ENR reviewed 1,060 applications and held 28 study section meetings. 334 reviewers served on these panels (See Table 4 ).

**IRG Staff:**

**Dr. Sooja Kim**

**Chief**

Dr. Syed Amir

Scientific Review Administrator

Sharon Argyle #

Grants Technical Assistant

Dr. Harold Brodie #

Scientific Review Administrator

Dennis Downer

Grants Technical Assistant

Cecelia Griffin #

Grants Technical Assistant

Dr. Michael Knecht

Scientific Review Administrator

Dr. Dennis Leszczynski

Scientific Review Administrator

Surbhi Paul \*

Grants Clerk

Dr. Abubakar Shaikh

Scientific Review Administrator

Huong Tran  
Donnice Wynn Coleman

Office Automation Clerk  
Grants Technical Assistant

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 4.** Applications reviewed by ENR by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	262	312	359	933	88.0%
<b>Small Business (R43)</b>	1			1	0.1%
<b>R21</b>	66	20	23	109	10.3%
<b>Other Research Projects</b>	3	7	4	14	1.3%
<b>Research Career Programs (K24)</b>	2		1	3	0.3%
<b>Total</b>	334	339	387	1,060	100.0%

**The Endocrinology and Reproductive Sciences IRG includes the following study sections:**

Biochemical Endocrinology (BCE)

Scientific Review Administrator: Dr. Michael Knecht

BCE reviews applications concerned with the chemical, biochemical, and molecular aspects of endocrinology, with a primary emphasis on hormones and endocrine glands associated with reproductive processes.

In 2003, BCE primarily reviewed applications for NCI (26.9%), NIDDK (40.9%), and NICHD (24.7%). It also reviewed a small number of applications for NIA, NIAMS, NHLBI, NIMH, and NINDS.

Endocrinology (END)

Scientific Review Administrator: Dr. Syed Amir

END reviews applications in general endocrinology, including molecular mechanism of hormone action, growth factors and cytokines. The studies range from aspects of developmental endocrinology to general clinical endocrinology.

In 2003, END primarily reviewed applications for NIDDK (77.8%) and NCI (7.9%), and also reviewed a small number of applications for NIA, NIAID, NIDCD, NIBIB, NIEHS, NIGMS, NICHD, NHLBI, NINDS and NCRR.

### Human Embryology & Development 1 (HED-1)

Scientific Review Administrator: Dr. Michael Knecht

HED-1 reviews applications dealing with mammalian embryology and development, and fetal-maternal relationships. Of special interest are research projects that study mechanisms associated with normal and abnormal development that will lead to a better understanding of embryology, pregnancy, parturition, and the prevention of infant morbidity and mortality.

In 2003, HED-1 primarily reviewed applications for NICHD (57.6%), NHLBI (31.3%), and NIDDK (5.1%). It also reviewed a small number of applications for NIAID, NIAMS, NIEHS, NIGMS, NINR, and NINDS.

### Reproductive Biology (REB)

Scientific Review Administrator: Dr. Dennis Leszczynski

REB reviews applications in the general area of sexual reproduction, including human, other vertebrate, and invertebrate model systems, but with less emphasis on endocrinology.

In 2003, REB primarily reviewed applications for NICHD (89.6%), but also reviewed a small number of applications for NIA, NIAID, NCI, NIDDK, NIEHS, NIGMS, and NCRR.

### Reproductive Endocrinology (REN)

Scientific Review Administrator: Dr. Abubakar Shaikh

REN reviews applications in the general areas of basic and clinical reproductive endocrinology and neuroendocrinology including normal and aberrant reproductive processes in humans and in laboratory animal models. Most of the patient oriented research is reviewed in REN.

In 2003, REN primarily reviewed applications for NIA (8.5%), NCI (37.0%), NIDDK (14.9%), and NICHD (36.2%). It also reviewed a small number of applications for NIAID, NCCAM, NIDA, NIEHS, and NHLBI.

### Small Business Activities

Small business applications reviewed by ENR cover a broad spectrum of research related to all aspect of general endocrinology, human embryology, reproductive physiology, and related diseases.

## Infectious Diseases and Microbiology Integrated Review Group

The Infectious Diseases and Microbiology (IDM) IRG reviews applications in the following areas: mechanisms of pathogenesis of viruses, rickettsia, bacteria, fungi, protozoa and other parasites of humans; basic molecular biology, physiology, and genetics of these pathogenic organisms; and basic molecular biology, physiology, and genetics of non-pathogenic bacteria, archae, yeasts, and viruses with non-human hosts. In 2003, IDM reviewed 2,614 applications in 101 study section meetings. 915 reviewers served on these panels. (See Table 5.)

### IRG Staff:

#### Dr. Alexander Politis

#### Chief

Michele Alfaro #	Grants Technical Assistant
Benjamin Alpert *	Grants Technical Assistant
Lisbeth Alvarado	Grants Technical Assistant
Dr. Terezinha Bounds #	Scientific Review Administrator, CSR Intern Program
Leslie Colbert *	Grants Technical Assistant
Sheryl Eastman #	Grants Technical Assistant
Dr. Fouad El-Zaatari #	Scientific Review Administrator
David Faustin	Grants Technical Assistant
Dr. Robert Freund	Scientific Review Administrator
Dr. Tim Henry	Scientific Review Administrator
Dr. Jean Hickman	Scientific Review Administrator
Denise Joseph*	
Dr. Jeanne Ketley *	Scientific Review Administrator
Dr. Richard Kostriken #	Scientific Review Administrator
Ericka McGowan	Grants Technical Assistant
Dr. Rolf Menzel #	Scientific Review Administrator
Dr. Melody Mills	Scientific Review Administrator
Dawn Mitchum *	Lead Grants Technical Assistant
Dr. Joseph Mosca #	Scientific Review Administrator
Dr. Alexander Politis	Scientific Review Administrator
Dr. Joanna Pyper	Scientific Review Administrator
Ayana Queen *	Grants Clerk
Kalon Scott #	Grants Technical Assistant
Dr. Diane Stassi #	Scientific Review Administrator
Dr. Allen Stoolmiller *	Scientific Review Administrator
Marion Ellen Stover #	Grants Technical Assistant
Dr. Marian Wachtel	Scientific Review Administrator
Ave Maria Wallace #	Office Automation Clerk
Dr. Neal West #	Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 5.** Applications reviewed by IDM by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	414	522	516	1,452	55.6%
<b>Small Business (R41, R42, R43, R44)</b>	131	196	182	509	19.5%
<b>R21</b>	46	153	106	305	11.7%
<b>Other Research Projects (R03, R15, R37)</b>	91	66	85	242	9.3%
<b>Fellowship Program (F31)</b>		63	36	99	3.8%
<b>Research Program Projects and Centers (P01)</b>		2		2	0.1%
<b>Miscellaneous Mechanisms (S10, U01)</b>	1		3	4	0.2%
<b>Total</b>	683	1,002	928	2,613	100.0%

The Infectious Diseases and Microbiology IRG has the following study sections:

#### Bacteriology and Mycology 1 (BM-1)

Scientific Review Administrator: Dr. Tim Henry

BM-1 reviews applications in the broad area of bacterial disease, including the basic biology of bacterial disease agents, etiology, molecular mechanisms of pathogenesis, host- parasite relations, taxonomy, virulence factors, phagocytosis, host-parasite relationships, antibiotic usage, and general immune phenomena.

In 2003, BM-1 primarily reviewed applications for NIAID (87.2%). It also reviewed a small number of applications for NIA, NIAMS, NCI, NIDCR, NIDDK, NIEHS, NIGMS, NICHD, and NHLBI.

#### Bacteriology and Mycology 2 (BM-2)

Scientific Review Administrator: Dr. Melody Mills

BM-2 reviews applications in the broad area of bacterial and fungal disease, including etiology, pathogenesis, host-parasite relations, taxonomy, virulence, phagocytosis, antibiotic usage, and general immune phenomena. It includes basic biology of bacterial and fungal disease agents; host -parasite relationships; pathogenesis; etiology; diagnostic procedures and basic research leading to vaccines. Diseases, infections, and conditions caused by the following are reviewed in BM-2: all fungal agents, mycoplasmas, Legionella, Neisseria, Pseudomonas, Streptococcus, Staphylococcus. Applications reviewed by BM-2 frequently involve the identification of virulence factors, the isolation and cloning of the virulence factors, the study of the control of the expression of the virulence factors, the physiological interaction of the virulence factor with the host, and perhaps a structure/function description of the factor.

In 2003, BM-2 primarily reviewed applications for NIAID (85.5%), but also reviewed a small number of applications for NIAMS, NIDCR, NIDDK, NIEHS, NIGMS, NICHD, NHLBI, NINDS and NCRR.

### Experimental Virology (EVR)

Scientific Review Administrator: Dr. Robert Freund

EVR addresses virtually all areas of virology. This includes basic molecular virology; viral biochemistry and biophysics; genetics; etiology, immunology and serology, pathogenesis, and cytopathology of viruses; tumor-viruses; chemo- and immunotherapy; viral structure and morphology, including electron microscopy; host-virus interactions; laboratory and clinical diagnosis; viral immunity; pre-vaccine studies; and antivirals.

In 2003, EVR primarily reviewed applications for NIAID (65.2%), NCI (17.8%) and NIGMS (5.7%). It also reviewed a small number of applications for NIDDK, NICHD, NHLBI, NIMH, NINDS, and the Center for Disease Control and Prevention.

### Microbial Physiology and Genetics 1 (MBC-1)

Scientific Review Administrators: Dr. Diane Stassi, Dr. Allen Stoolmiller, Dr. Neal West

MBC-1 reviews applications dealing with the metabolism, structure, and morphogenesis of microorganisms except protozoa.

In 2003 MBC-1 primarily reviewed applications for NIAID (29.4%) and NIGMS (67.2%). It also reviewed a small number of applications for NCI, NIDCR, NIDDK, and NIEHS.

### Microbial Physiology and Genetics 2 (MBC-2)

Scientific Review Administrators: Dr. Alex Politis

MBC-2 reviews applications concerned with the genetics and molecular biology of bacteria, cyanobacteria, archae, and, some research in yeasts. Also included are the genetics of viruses that infect these organisms. MBC-2's interest is on the enzymes and processes of replication, transfer, and expression of the microbial genome as well as mutation, recombination, repair, and functional genomics.

In 2003, MBC-2 reviewed applications primarily for NIAID (23.7%) and NIGMS (73.7%), and also reviewed a small number of applications for NIA, NIDDK, and NIEHS.

Tropical Medicine and Parasitology (TMP)

Scientific Review Administrator: Dr. Jean Hickman

TMP is primarily interested in experimental, survey, and clinical projects designed to study and control the myriad of parasites, pests, and vectors that carry or cause disease in humans and other animals. Also of interest in relation to these agents are epidemiological factors involved in the spread and control of disease.

In 2003, TMP primarily reviewed applications for NIAID (91.4%), but also reviewed a small number of applications for NCI, NIDDK, NEI, NIGMS, NICHD and NHLBI.

Virology (VR)

Scientific Review Administrator: Dr. Joanna Pyper

VR reviews virtually all facets, basic and applied, of virology. Thus, the range of interest and competence is broad, including biophysics, and genetics, etiology, immunology and serology, pathogenesis and cytopathology, tumor-viruses, immunotherapy, ultrastructure (electron microscopy), epizootiology, pre-vaccine studies and laboratory and clinical diagnosis.

In 2003, VR primarily reviewed applications for NIAID (55.6%), NCI (26.2%), and NIGMS (8.9%). It also reviewed a small number of applications for NIA, NIDCR, NIDDK, NICHD, NHLBI, and NINDS.

Small Business Activities

The IDM IRG reviews small business applications that focus on the development and biological or clinical testing of therapeutic agents that target microbial, fungal, parasitic, viral, or biofilm-related diseases.

**Immunological Sciences Integrated Review Group**

The Immunological Sciences (IMM) IRG reviews applications seeking an understanding of how the immune system functions in health and disease, such as: research on the structure and function of cell surface markers and receptors of the cellular components of the immune system, including accessory cells; synthesis, structure and function of antibodies; development, regulation, and interaction of the elements of the humoral and cellular components of the immune system; and involvement of the immune system in the pathogenesis and treatment of disease. In 2003, IMM reviewed 1,619 applications in 69 study section meetings. 546 reviewers served on IMM review panels. (See Table 6.)

**IRG Staff:**

**Dr. Calbert Laing**

**Chief**

Dr. Cathleen Cooper	Scientific Review Administrator
Dr. Samuel Edwards	Scientific Review Administrator
Gladys Francois #	Grants Technical Assistant
Dr. Bahiru Gametchu #	Scientific Review Administrator
Dr. Betty Hayden	Scientific Review Administrator
Sheila Jones	Lead Grants Technical Assistant
Robin Mathura #	Grants Technical Assistant
Dr. Tina McIntyre #	Scientific Review Administrator
Dr. Stephen Nigida	Scientific Review Administrator
Olusola Osilesi	Grants Technical Assistant
Angela Richardson	Grants Technical Assistant
Lucy Rowser	Lead Grants Technical Assistant
Adebusola Shomoye #	Grants Technical Assistant
Charlotte Vanrossum *	Grants Technical Assistant
Dr. Jian Wang #	Scientific Review Administrator, CSR Intern Program
Dr. Catharine Wingate #*	Scientific Review Administrator
Dr. Eugene Zimmerman #*	Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 6.** Applications reviewed by IMM by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	275	344	355	974	60.2%
<b>Small Business (R41, R42, R43, R44)</b>	72	81	85	238	14.7%
<b>R21</b>	43	53	71	167	10.3%
<b>Other Research Projects (R03, R13, R15, R24, R25, R37)</b>					
	28	47	47	122	7.5%
<b>Fellowship Program (F30, F31, F32)</b>	32	43	34	109	6.7%
<b>Miscellaneous Mechanisms (S10)</b>			9	9	0.6%
<b>Total</b>	450	568	601	1,619	100.0%

The Immunological Sciences IRG has the following study sections:

Allergy and Immunology (ALY)

Scientific Review Administrator: Dr. Samuel Edwards

ALY reviews applications on molecular and biochemical approaches to understanding the structure and function of the components of the immune system, their regulation and interrelationships; structural and biophysical approaches to

understanding the function of immune cells; immune cell activation and cell-cell communication via signal transduction; studies of complement and the innate immune system; molecular aspects of immediate type hypersensitivity; molecular approaches to immunogenetics and immunodeficiency.

In 2003, ALY primarily reviewed applications for NIAID (69.0%), NCI (10.7%), and NIGMS (11.2%); it also reviewed a small number of applications for NIAMS, NIDA, NIDCD, NIDCR, NIDDK, NIBIB, NICHD, NHLBI, NINDS and the Center for Disease Control and Prevention.

### Experimental Immunology (EI)

Scientific Review Administrator: Dr. Cathleen Cooper

EI reviews applications on the cellular and molecular aspects of the immune system function, particularly relating to immunity against cancer. EI is concerned with the more basic aspects of the topics covered but also considers clinical aspects of immunology where there is a link between both stages. Emphasis is on the immunobiology and immunochemistry of humoral and cellular immune reactions in animals and humans to partially or completely defined antigens, immunotherapy of tumors, gene therapy of tumors, cytokine (and other mediators) therapy of tumors, phagocytosis and antigen processing, the characterization of mediators and antigens involved in tumor experimental immunotherapy and immunodiagnosis of tumors and immunopathology of tumors where there is a link between these topics and immune reactivity against the tumor.

In 2003, EI primarily reviewed applications for NIAID (34.4%) and NCI (58.1%). It also reviewed a small number of applications for NIA, NCCAM, NIDCR, NIDDK, NIGMS, NHLBI, and NINDS.

### Immunobiology (IMB)

Scientific Review Administrator: Dr. Betty Hayden

IMB reviews applications on the functional and mechanistic aspects of basic immunology; cellular and molecular immunology; immunogenetics; immunoregulation; development of T and B cells; T and B cell activation and differentiation; T-B cell interaction, basic tissue (bone marrow) and organ transplantation; tolerance, apoptosis, immunology of aging.

In 2003, IMB reviewed applications primarily for NIAID (75.6%), NCI (6.4%), and NIA (6.4%), but also reviewed a small number of applications for NIAMS, NCCAM, NIDDK, NIGMS, NICHD, NHLBI, and NINDS.

Immunological Sciences (IMS)

Scientific Review Administrators: Dr. Samuel Edwards, Dr. Bahiru Gametchu

IMS reviews applications that focus on cellular, biochemical, and molecular aspects of the immune system in the context of immunological diseases including clinical hypersensitivity, autoimmune diseases, and immunodeficiency but excluding transplantation and tumor biology. The focus of IMS includes applications that utilize animal models and/or human clinical investigations to advance the understanding of or treatment options against immunologically-based disease. Review of applications concerning infectious agents is limited to early stage vaccine development and applications that focus on the immune responses against viruses.

In 2003, IMS primarily reviewed applications for NIAID (49.8%), NIAMS (11.6%), NIDDK (20.4%), and NINDS (10.5%). It also reviewed a small number of applications for NIA, NCCAM, NCI, NIDA, NIEHS, NIGMS, NICHD, NHLBI, and NCRR.

**Nutritional and Metabolic Sciences Integrated Review Group**

The Nutritional and Metabolic Sciences (NMS) IRG reviews basic and clinical applications on: the metabolic and nutritional processes across the lifespan in normal and disease states at the organism, tissue, or cellular level; requirements of living organisms for nutrients, vitamins and trace elements; and nutritional practices in all clinical sciences. In 2003, NMS reviewed 835 applications and held 17 study section meetings. 238 reviewers served on these panels. (See Table 7.)

**IRG Staff:****Dr. Sooja Kim**

Nancy Barden  
Dr. Ann Jerkins  
Dr. Sooja Kim  
Dr. N. Krish Krishnan  
Kimberly Wesley

**Chief**

Lead Grants Technical Assistant  
Scientific Review Administrator  
Scientific Review Administrator  
Scientific Review Administrator  
Grants Technical Assistant

**Table 7.** Applications reviewed by NMS by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	129	158	159	446	53.4%
<b>Small Business (R41, R42, R43, R44)</b>	51	60	72	183	21.9%
<b>R21</b>	18	19	45	82	9.8%
<b>Other Research Projects (R15, R37)</b>	4	5	5	14	1.7%
<b>Fellowship Program (F31, F32, F33)</b>	28	41	39	108	12.9%
<b>Research Career Programs (K24)</b>	1		1	2	0.2%
<b>Total</b>	231	283	321	835	100.0%

The Nutritional and Metabolic Sciences IRG has the following study sections:

#### Metabolism (MET)

Scientific Review Administrator: Dr. Ann Jerkins

MET embraces physicochemical processes of anabolism and catabolism that occur within living organisms. Metabolic processes in normal and disease states, in experimental animals or human subjects, as well as in whole organs (isolated or in situ) or tissues including cell culture are pertinent.

In 2003, MET reviewed applications primarily for NIDDK (72.3%) and NHLBI (21.5%), but also reviewed a small number of applications for NIA, NIAMS, NCCAM, NEI, NIGMS, NICHD and NINDS.

#### Nutrition (NTN)

Scientific Review Administrator: Dr. Sooja Kim

NTN reviews applications on the basic, experimental, and clinical nutrition of humans and animals in vivo and in vitro. Of special interest are research projects that are designed to assess the consequences of food and/or nutrient intake and utilization in the intact organism, including humans, as well as the metabolic and behavioral mechanisms. These studies encompass investigations of nutrient variables at the cellular or subcellular level.

In 2003, NTN reviewed applications primarily for NIA (7.9%), NIDDK (59.3%), NICHD (9.3%) and NHLBI (8.8%). It also reviewed a smaller number of applications for NIAAA, NIAID, NIAMS, NCCAM, NCI, NIEHS, NEI, NIGMS, NIMH, NINR, NINDS, and NCRR.

Small Business Activities

Small business applications reviewed by the NMS IRG cover a broad spectrum of research related to all aspects of metabolic and nutritional processes in normal and disease states.

Fellowships (F06)

Scientific Review Administrator: Dr. Krish Krishnan

F06 reviews fellowship applications involved in areas of endocrinology, metabolism, nutrition, and reproductive sciences. Included are applications for a broad spectrum of research related to all aspects of general endocrinology, gametogenesis and reproductive physiology, pregnancy and lactation, and nutrient metabolism.

**Oncological Sciences Integrated Review Group**

The Oncological Sciences (ONC) IRG is interested in biomedical and clinical investigations that encompass cancer initiation, promotion, and treatment. Specifically, ONC reviews research proposals related to: chemical carcinogenesis, nutritional carcinogenesis, radiation effects, and tumor biology; mechanism of action of cancer therapeutic agents in both in vitro and in vivo model systems; evaluation of experimental therapy of neoplastic diseases and translation of basic studies to clinical application; and chemoprevention. The ONC IRG underwent reorganization in the latter part of fiscal year 2003 and the last meetings of the CPA, ET-1, ET-2, MEP, PTHB and RAD study sections shown below were held in June and July 2003. In 2003, ONC study sections reviewed 3,518 applications and held 158 meetings. 914 reviewers served on these panels. (See Table 8.)

**IRG Staff:**

**Dr. Syed Quadri**

**Chief**

Dr. Manzoor Ahmad #	Scientific Review Administrator, CSR Intern Program
Anita Anderson *	Grants Technical Assistant
Kathy Augustin	Grants Technical Assistant
Dr. Mary Bell #	Scientific Review Administrator
David Bogley	Grants Technical Assistant
Najum-ul Chaudhry *	Grants Technical Assistant
Dr. Eun Cho	Scientific Review Administrator
Dr. Leda Cummings #*	Scientific Review Administrator
Howard England	Lead Grants Technical Assistant
Dr. Victor Fung	Scientific Review Administrator
Dr. Sharon Gubanich	Scientific Review Administrator
Dawn Josephson *	
Dr. Morris Kelsey #	Scientific Review Administrator

Dr. Marcia Litwack	Scientific Review Administrator
Dr. Sami Mayyasi # *	Scientific Review Administrator
Dr. John Meyer #	Scientific Review Administrator
Lenora Miller #	Grants Technical Assistant
Joseph Morris	Grants Technical Assistant
Dr. Angela Ng	Scientific Review Administrator
Dominic Nguyen #	Grants Technical Assistant
Dr. Martin Padarathsingh	Scientific Review Administrator
Philip Perkins	Scientific Review Administrator
Trevor Peterson #	Grants Technical Assistant
Hanh Pham	Grants Clerk
Pamela Rogers #	Grants Technical Assistant
Aroos Shafi #	Grants Technical Assistant
Dr. Elaine Sierra-Rivera	Scientific Review Administrator
Lori Stoller-Cruz	Grants Technical Assistant
Dr. Paul Strudler	Scientific Review Administrator
June Traicoff *	Scientific Review Administrator, CSR Intern Program
Dr. Neal West #	Scientific Review Administrator
Dr. Shen Yang *	Scientific Review Administrator
Dr. Zhiqiang Zou #	Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 8.** Applications reviewed by ONC by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	742	824	826	2,392	68.0%
<b>Small Business (R41, R42, R43, R44)</b>	94	167	152	413	11.7%
<b>R21</b>	115	121	289	525	14.9%
<b>Other Research Projects (R03, R15, R37)</b>	7	15	5	27	0.8%
<b>Fellowship Program (F30, F31, F32, F33)</b>	50	44	65	159	4.5%
<b>Miscellaneous Mechanisms (S10)</b>			2	2	0.1%
<b>Total</b>	1,008	1,171	1,339	3,518	100.0%

The Oncological Sciences IRG had the following study sections in 2003:

Chemical Pathology (CPA)

Scientific Review Administrator: Dr. Victor Fung

CPA addresses cellular pathology and various chemical and physical aspects of such pathology, including mechanism of tumor induction by toxic substances at the cellular and sub-cellular levels; studies of mutagens, carcinogens, and their interactions with DNA; and biochemical mechanisms in chemical carcinogenesis. The emphasis is on linking the disciplines of chemistry and pathology in basic and clinical studies on the etiology of diseases at the cellular level.

In 2003, CPA reviewed applications primarily for NCI (73.4%), NIEHS (12.9%) and NIGMS (7.2%), and also reviewed smaller numbers of applications for NIA, NIAMS, NCCAM, NIDCR, NIDDK, NHBLI, and NINDS.

#### Experimental Therapeutics 1 (ET-1)

Scientific Review Administrator: Dr. Philip Perkins

ET-1 encompasses most areas in the preclinical studies of antineoplastic agents. These include in vitro and in vivo model systems, studies utilizing human tissues, but no patient studies.

In 2003, ET-1 primarily reviewed applications for NCI (96.1%), but also reviewed applications for NIA, NIDCR, NIDDK, NIBIB, NIGMS, NHLBI, NINR and NINDS.

#### Experimental Therapeutics 2 (ET-2)

Scientific Review Administrator: Dr. Marcia Litwack

ET-2 reviews applications addressing the experimental therapy of neoplastic diseases in in vitro systems and in vivo model systems, as well as studies with human tissues including some patient studies. The emphasis of this study section is on translational research.

In 2003 ET-2 primarily reviewed applications for NCI (93.9%), and also reviewed a small number of applications for NIAID, NCCAM, NIDCR, NIBIB, NHLBI and NINDS.

#### Metabolic Pathology (MEP)

Scientific Review Administrator: Dr. Angela Ng

MEP reviews applications concerned with the effects and roles of nutritional deficiencies/excesses in cellular pathology, immunological and molecular aspects of nutritional carcinogenesis and cancer chemoprevention. Molecular and cellular carcinogenesis, as well as epigenetic events in cancer will be reviewed in this study section, along with tumor models.

In 2003 MEP primarily reviewed applications for NCI (90.7%), and also reviewed a small number of applications for NIA, NCCAM, NIDDK, NIEHS, and NIGMS.

Pathology B (PTHB)

Scientific Review Administrator: Dr. Martin Padarathsingh

PTHB reviews laboratory and clinical investigations of cancer, including the biology, molecular biology, and cytogenetics of tumor progression, and angiogenesis. Applications dealing with the pathogenesis of cancer metastasis and invasion, and morphologic changes, ultrastructural changes, and genomic instability of tumors are reviewed in this study section. Studies on tumor transplantation and the development of tumor models are also reviewed in this study section.

In 2003 PTHB reviewed applications primarily for NCI (93.8%). It also reviewed a small number of applications for NIA, NIAID, NIAMS, NIDCR, NIDDK, NIGMS, and NHLBI.

Cancer Molecular Pathobiology (CAMP)

Scientific Review Administrator: Dr. Elaine Sierra-Rivera

CAMP reviews laboratory and clinical investigations of cancer, including studies of cell growth and differentiation as they relate to cancer. These include molecular biology and cytogenetics of tumor markers, as well as factors that may influence initiation of oncogenic transformation such as: cytokines, lymphokines, growth factors, and hormones. Applications dealing with the molecular and pathogenic mechanisms involved in the development of brain and lymphoid malignancies are also reviewed in this study section.

In 2003 CAMP primarily reviewed applications for NCI (92.7%), and also reviewed smaller numbers of applications for NIA, NIAID, NIDCR, NIDDK, NIGMS, NHBLI and NINDS.

Radiation (RAD)

Scientific Review Administrator: Dr. Paul Strudler

RAD reviews applications dealing with the interaction of radiation and heat with matter at the molecular, cellular, and clinical levels. Of particular interest are applications in which dose, dose rate, and the type and quality of radiation are variables.

In 2003, RAD primarily reviewed applications for NCI (81.3%) and NIGMS (8.5%). It also reviewed a small number of applications for NIA, NIAID, NIAMS, NIDCR, NIDDK, NIBIB, NIEHS, NEI, NHLBI, NINDS and NCRR.

Clinical Oncology (CONC)

Scientific Review Administrator: Dr. Sharon Gubanich

CONC reviews applications in the areas of clinical patient-oriented research and clinical therapeutic trials. This includes all Phase I, II and III clinical trials using drugs, radiation and/or biological agents for the treatment of patients with cancer.

In 2003, all applications reviewed by CONC were assigned to NCI.

Small Business Activities

ONC reviews small business grant applications concerned with basic, preclinical, and clinical studies in the oncological sciences.

Fellowships (F09)

Scientific Review Administrator: Dr. Syed Quadri

F09 reviews fellowship applications concerned with basic, preclinical and clinical studies in the oncological sciences.

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## **Division of Clinical and Population-based Studies**

The Division of Clinical and Population-based Studies (DCPS) is responsible for the merit review of a wide range of science that focuses on the clinical approaches and population studies. This includes behavioral and social sciences, brain disorders, and surgery, radiology and bioengineering. The conditions that are examined are generally disordered, but the normative underpinnings of clinical disorders are also studied. Although the majority of the research involves humans, animal models are examined as well. Biotechnology and neuroimaging are frequently employed in the research.

At the close of 2003 DCPS consisted of five Integrated Review Groups (IRGs). These are: 1) Biobehavioral and Behavioral Processes (BBBP); 2) Brain Disorders and Clinical Neuroscience (BDCN); 3) Health of the Population (HOP); 4) Risk, Prevention and Health Behavior (RPHB); and 5) Surgery, Radiology, and Bioengineering (SRB). The technology-oriented study sections are designed to feed into the more clinical study sections as the research evolves. In 2003, DCPS study sections held a total of 409 meetings and reviewed 10,934 applications.

### **Changes in the Division During Fiscal Year 2003**

An increase in the number of grant applications to NIH and the rapid pace of advancement in biomedical research has resulted in more and more-complicated reviews for CSR. To better manage expanding responsibilities for coordinating these reviews, CSR restructured its three review divisions into four new divisions in FY 2002 and this reorganization was implemented in FY 2003. In this reorganization the Division of Biologic Basis of Disease (DBBD) was created and Dr. Elliot Postow who was Director of DCPS was appointed Director of the new Division. Dr. Anita Miller Sostek was selected as new Director of DCPS. In addition, as part of the reorganization, the Oncology (ONC) and AIDS and Related Research (AARR) IRGs were transferred out of DCPS and in DBBD.

### **Changes in the Division Anticipated for Fiscal Year 2004**

In 2004, the SRB IRG will be reorganized into the Surgical Sciences, Biomedical Imaging, and Bioengineering IRG (SBIB). The first applications to be assigned to the new study sections arrived in February, 2004.

### **IRG Chief and Review Staff Personnel Changes in Fiscal Year 2003**

Dr. Karen Sirocco became Chief of the BBBP IRG. The former Chief, Dr. Anita Miller Sostek, became Division Director. DCPS lost several SRAs during the year, including Jeffrey Elias, Teresa Montini, Teresa Nesbitt, Tracy Orr, and Michael Oxman. During the year the following SRAs joined the Division staff: Laurie Donze (intern), Valerie Durrant, Rene Etcheberrigaray, Claire Gutkin, Robert Nordstrom, Arthur Petrosian, Dana Plude, Anna Riley (intern), and Behrouz Shabestari.

**Division Staff:**

**Dr. Anita Miller Sostek**

Ruthann McAndrew  
Kristeena Sigler

**Director**

Administrative Review Assistant  
Review Technology Assistant

**Biobehavioral and Behavioral Processes Integrated Review Group**

The Biobehavioral and Biobehavioral Processes (BBBP) IRG considers applications on biobehavioral and behavioral processes across the lifespan. Research on non-human animals as well as humans is included, and both normal and disordered processes are addressed. While the focus is on behavior, studies may also consider related central, autonomic, neuroendocrine, immune, neural, hormonal, motor, and genetic issues. Neuroimaging and molecular and/or behavioral genetic approaches may be employed. In 2003, BBBP study sections held 91 meetings and reviewed 1,695 applications. 734 reviewers served on BBBP's review panels (See Table 9).

**IRG Staff:**

**Dr. Karen Sirocco**

**Chief**

Dr. Maribeth Champoux  
Dr. Jeffrey Elias \*  
Charlet Grant  
Melissa Hinterlang \*  
Mary Sue Krause  
Jasprit Matta #  
Dr. Weijia Ni  
Shannon Oden  
Stephanie Payne \*  
Dr. Dana Plude #  
Dr. Luci Roberts  
Nadeem Shaikh #  
Dr. Mariela Shirley  
Dr. Thomas Tatham  
Emily Tran  
Andrea Wachtel (formerly Fraser)  
Dr. Cheri Wiggs

Scientific Review Administrator  
Scientific Review Administrator  
Office Automation Clerk  
Supervisory Grants Review Assistant  
Scientific Review Administrator  
Grants Technical Assistant  
Scientific Review Administrator  
Lead Grants Technical Assistant  
Office Automation Clerk  
Scientific Review Administrator  
Scientific Review Administrator  
Grants Technical Assistant  
Scientific Review Administrator  
Scientific Review Administrator  
Grants Technical Assistant  
Grants Technical Assistant  
Scientific Review Administrator

\* Left CSR in fiscal year 2003  
# Joined CSR in fiscal year 2003

**Table 9.** Applications reviewed by BBBP by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	263	306	308	877	51.7%
<b>Small Business (R41, R42, R43, R44)</b>	107	98	105	310	18.3%
<b>R21</b>	34	25	27	86	5.1%
<b>Other Research Projects (R03, R13, R15, R37)</b>	37	59	45	141	8.3%
<b>Fellowship Program (F30, F31, F32)</b>	31	113	82	226	13.3%
<b>Research Career Programs (K01, K08, K23, K24)</b>	13	11	16	40	2.4%
<b>Miscellaneous Mechanisms (U01, U54)</b>	10	5		15	0.9%
<b>Total</b>	495	617	583	1,695	100.0%

The Biobehavioral and Behavioral Processes IRG has the following study sections:

Biobehavioral Regulation, Learning and Ethology (BRLE)

Scientific Review Administrator: Dr. Luci Roberts

BRLE (formerly BBBP-1) reviews applications investigating basic biobehavioral processes and adaptation across the lifespan (infancy through old age). The Study Section primarily considers research with non-human animals (vertebrates and invertebrates), but relevant work with humans is also included. Normal and disordered processes are addressed. Although the focus is on behavior, studies may also consider related neural, hormonal, and genetic factors. Methods include (but are not limited to) behavioral experiments, naturalistic observation, pharmacologic interventions, and computational modeling.

In 2003, BRLE primarily reviewed applications for NIAAA (5.5%), NIDA (43.3%), NICHD (9.2%) and NIMH (30.9%). It also reviewed small numbers of applications for NIA, NCCAM, NCI, NIDCD, NIDDK, NIEHS, NIGMS, and NINDS.

Biobehavioral Mechanisms of Emotion, Stress and Health (MESH)

Scientific Review Administrator: Dr. Thomas Tatham

MESH (formerly BBBP-2) reviews applications focused on basic biobehavioral, psychological, social and cultural processes governing affect (emotion, mood) and stress in animals and humans. These studies may include application of basic research, theories and techniques to the study of physical and mental disease processes. Studies also focus on central, autonomic, neuroendocrine, immune, genetic, experiential and lifespan developmental processes, appraisal and coping processes, as well as studies of attachment, well-being, hedonic processes, resilience and behavioral expression. Studies of stress include both laboratory-induced and naturally occurring stressors.

In 2003, MESH primarily reviewed applications for NIMH (58.0%), NCI (6.7%), NIDA (8.4%), NICHD (5.9%) and NHLBI (5.9%). It also reviewed applications for NIAAA, NIA, NIAID, NCCAM, NIDCR, NIEHS, and NINDS.

#### Language and Communication (LCOM)

Scientific Review Administrator: Dr. Weijia Ni

LCOM (formerly BBBP-3) reviews applications investigating language and other types of communication and their development across the lifespan (infancy through old age), primarily in humans. All forms of language and communication, both normal and disordered, are considered. As well as research concerned with the development and evaluation of preventive and therapeutic interventions for language and communication disorders. Studies of non-human animals may be included when these are directly relevant to understanding human language and communication. Methods include (but are not limited to) psychological experiments, naturalistic observation, linguistic and logical analyses, computational modeling, neuroimaging, and psychophysiological measurement.

In 2003, LCOM reviewed applications primarily for NIDCD (30.6%), NICHD (45.0%), NIMH (16.9%) and NIA (6.3%), and also reviewed a small number of applications for NINDS.

#### Cognition and Perception (CP)

Scientific Review Administrator: Dr. Cheri Wiggs

CP (formerly BBBP-4) reviews applications investigating cognition and perception and their development across the entire lifespan (infancy through old age), primarily in humans. Normal and disordered forms of cognition and perception are considered. Studies of non-human animals are appropriate when these are directly relevant to understanding processes in humans. Also included are the influences of affect, stress, and substance use and of physical, social and cultural contexts, provided that the emphasis is on the nature of cognitive and perceptual processes. Methods include (but are not limited to) psychological experiments, naturalistic observation, mathematical and computational modeling, neuroimaging, neuropsychology, and psychophysiological measurement.

In 2003, CP reviewed applications primarily for NIMH (56.5%), NIA (15.0%), and NICHD (18.4%). It also reviewed small number of applications for NIAAA, NIDA, NIDCD, NEI, and NINDS.

Adult Psychopathology and Disorders of Aging (APDA)

Scientific Review Administrators: Dr. Jeffrey Elias, Dr. Mariela Shirley

APDA (formerly BBBP-5) reviews applications concerned with emotional, behavioral, and cognitive disorders in adults. Emphasis is on clinical aspects of disorders including: schizophrenia, mood disorders, suicide, anxiety and traumatic stress disorders, eating disorders, substance use disorders, personality disorders; Alzheimer's disease, traumatic brain injury, and sleep disorders. Samples may include clinic, community diagnosed, symptomatic and high-risk groups. Relevant research includes investigations of psychological and biological vulnerability factors, processes and markers; and studies of etiology, diagnosis, course, treatment, functional outcome and comorbidity with other physical conditions and disorders. Environmental, social and cultural factors may also be studied as they relate to individual differences in psychological and biological dysfunction.

In 2003, APDA primarily reviewed applications for NIMH (82.8%) and NIA (8.4%), and also reviewed small numbers of applications for NIAAA, NIDA, NIDDK, NIEHS, and NINDS.

Child Psychopathology and Developmental Disabilities Study Section (CPDD)

Scientific Review Administrator: Dr. Maribeth Champoux, Dr. Karen Sirocco

CPDD (formerly BBBP-6) reviews applications on developmental, psychopathological, and substance use disorders in infants, children, adolescents, and adults with disorders originating in early development. Emphasis is placed on cognitive, behavioral, social, family, and neurobiological aspects of a) developmental disabilities such as autism and mental retardation; brain injury and communication and learning disabilities; b) disorders of behavioral and/or emotional regulation such as attention deficit hyperactivity disorder, Pediatric Autoimmune Neuropsychiatric Disorders Associated with Streptococcal Infections (PANDAS), mood disorders, suicide, anxiety and traumatic stress disorders, conduct disorder, eating disorders, personality disorders, and psychoses; c) substance use disorders; and d) the relationship among these disorders over time.

In 2003, CPDD primarily reviewed applications for NIDA (10.4%), NICHD (23.9%), NINDS (5.5%), and NIMH (48.8%). It also reviewed applications for NIAAA, NIA, NCI, NIDCD, NIEHS, NHLBI, and NINR.

Motor Function, Speech, and Rehabilitation (MFSR)

Scientific Review Administrator: Dr. Weijia Ni

MFSR (formerly BBBP-7) reviews applications on normal and disordered motor function, including speech and voice production. Function across the lifespan

(infancy through old age), in humans and other animals, is addressed. Also included are the development and evaluation of preventive and therapeutic interventions for movement, speech, voice, and related disorders. Although the focus is on behavior, studies may also consider associated anatomical, physiological, neural, hormonal, and genetic factors. Methods include (but are not limited to) behavioral experiments, physiological measurement, acoustic analysis, structural and functional imaging, and computational modeling.

In 2003, MFSR primarily reviewed applications for NIA (10.5%), NIDCD (35.5%), NICHD (22.4%), NIMH (6.6%), and NINDS (17.1%). It also reviewed a small number of applications for NIAMS, NCCAM, and NEI.

### Small Business Activities

Scientific Review Administrators: Dr. Thomas Tatham, Dr. Dana Plude

Small business applications reviewed by BBBP cover a broad spectrum of research on all aspects of biobehavioral and behavioral processes in normal and disordered populations. The MESH (10) SEP reviews applications on: developmental disabilities (mental retardation, autism, learning disabilities, ADHD); child and adolescent development; parenting; speech, deafness, language and reading; and science education for the non-professional; driving simulation; substance use if related to science education or developmental disabilities; and behavior analysis. SSS-R (10) reviews applications on: psychopathology; adult disorders; sleep; adult neuropsychology (excluding driving); cognitive aging and memory; substance abuse; and management of emotion in adults (e.g., anger and stress).

### **Brain Disorders and Clinical Neuroscience Integrated Review Group**

The Brain Disorders and Clinical Neuroscience (BDCN) IRG reviews grant applications that have neural disorders and/or injury of the nervous system as their main focus. Investigations appropriate for review in the BDCN IRG may include those using animal models of neural injury or disease, investigations based on the study of specific patient populations, or investigations focused on the development of rehabilitative and therapeutic strategies. Specific areas of interest include the investigation of traumatic brain or spinal cord injury, the consequences of episodes of ischemia or hypoxia, the study of mental disorders, neurodegenerative diseases, and other neuropathies. These Specific areas of interest may be studied from the perspective of neuroanatomical or neurophysiological alterations, changes in neurotransmitter or neurotrophin function or metabolism, the genetic, cellular, or molecular basis of alterations induced by disease or injury, the influence or involvement of the immune or vascular systems in a neural disease process or response, and the neurological basis of addictive, cognitive, behavioral, and emotional disorders. In 2003, BDCN study sections held 72 meetings and reviewed 2,170 applications. 656 reviewers served on BDCN review panels. (See Table 10.)

**IRG Staff:**

**Dr. David Armstrong**

**Chief**

Dr. William Benzing	Scientific Review Administrator
Jenny Bogley	Lead Grants Technical Assistant
Joseph Chacon	Grants Technical Assistant
Julian Cinque	Scientific Review Administrator
Dr. Mary Custer	Scientific Review Administrator
Dominic DaCosta #	Grants Technical Assistant
Dr. Rene Etcheberrigaray #	Scientific Review Administrator
Margot Faxton	Grants Technical Assistant
K. Michael Jordan	Grants Review Assistant
Dr. Jay Joshi	Scientific Review Administrator
Bella Kazantseva	Grants Technical Assistant
Dr. David Simpson	Scientific Review Administrator
Dr. Sherry Stuesse	Scientific Review Administrator
Lynne Williams	Grants Technical Assistant

# *Joined CSR in fiscal year 2003*

**Table 10.** Applications reviewed by BDCN by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	420	508	542	1470	67.7%
<b>Small Business (R41, R42, R43, R44)</b>	117	143	139	399	18.4%
<b>R21</b>	18	31	36	85	3.9%
<b>Other Research Projects (R03, R13, R15, R37)</b>	20	12	14	46	2.1%
<b>Fellowship Program (F30, F31, F32, F33)</b>	27	57	42	126	5.8%
<b>Research Career Programs (K01, K02, K05, K08, K23, K24)</b>	14	14	16	44	2.0%
<b>Grand Total</b>	616	765	789	2170	100.0%

The Brain Disorders and Clinical Neurosciences IRG has the following study sections:

Clinical Neuroscience and Disease (CND)

Scientific Review Administrator: Dr. David Armstrong

CND (formerly BDCN-1) addresses anatomical and functional basis of neural disease and injury across the life span. Emphasis is on the neural substrate, functional consequences (cognitive, sensory/motor, behavioral, pathophysiological), rehabilitation, and the development of therapeutic strategies. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. This Study Section considers relevant animal models and patient-oriented research.

In 2003, CDN reviewed applications primarily for NINDS (78.2%), NIA (8.4%), and NICHD (5.0%). It also reviewed small numbers of applications for NIAMS, NCCAM, NIDA, NIDDK, NHLBI, NIMH, and NCRR.

#### Clinical Neuroplasticity and Neurotransmitters (CNNT)

Scientific Review Administrator: Dr. William Benzing

CNNT (formerly BDCN-2) addresses the area of neural disease and injury across the life span that focuses on neurotransmitter or neurotrophic function. This includes studies of plasticity, regeneration, and therapeutic strategies. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. Studies may involve animal models and patient-oriented research.

In 2003 CNNT primarily reviewed applications for NINDS (78.2%), NIA (10.2%), and NIMH (7.3%). A small number of applications was also reviewed for NCCAM, NIDA, NIDDK, NIBIB, NIEHS, and NHLBI.

#### Cell Death and Injury in Neurodegeneration (CDIN)

Scientific Review Administrator: Dr. David Simpson

CDIN (formerly BDCN-3) addresses the genetic, molecular, and cellular basis of neural disorders and injury across the life span. This includes studies of neuronal cell death and protein and macromolecular function in neurodegenerative disease. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. This study section can review studies of in vitro systems, animal models, and patient-oriented research.

In 2003, CDIN reviewed applications primarily for NINDS (68.0%) and NIA (21.8%). It also reviewed small numbers of applications for NIAID, NCCAM, NIDA, NIDCR, NIDDK, NIEHS, NEI, NICHD, NIMH, and NINR.

#### Clinical Neuroimmunology and Brain Tumors (CNBT)

Scientific Review Administrator: Dr. Jay Joshi

CNBT (formerly BDCN-4) addresses central and peripheral nervous system disorders, including neuromuscular disorders, and injury across the life span where the focus is on infections, immune, inflammatory or vascular mechanisms. The scope of investigations ranges from in vitro and animal models to human studies and patient-oriented research. Examples of relevant disorders include: multiple sclerosis, myasthenia gravis, infectious diseases of the nervous system, spinal cord

and brain injury, inflammatory neuropathies and myopathies, stroke, multi-infarct dementia, subarachnoid hemorrhage, and nervous system tumors.

In 2003 CNBT primarily reviewed applications for NINDS (61.5%), NIA (15.5%), NIAID (9.8%), and NCI (6.9%). It also reviewed a small number of applications for NIAMS, NCCAM, NIDA, NIDCR, NIMH, and NCRR.

#### Developmental Brain Disorders (DBD)

Scientific Review Administrator: Dr. Sherry Stuesse

DBD (formerly BDCN-5) addresses disorders that impact specifically the developing brain and spinal cord. This includes genetic, metabolic, infectious, environmental, and behavioral influences on the fetal, neonatal or pediatric brain that lead to abnormal brain development and function. The Study Section has clinical and basic expertise in the vulnerability and plasticity of the developing brain, and can review patient-oriented research in children and relevant animal models.

In 2003 DBD reviewed applications primarily for NINDS (45.2%), NICHD (20.5%), and NIMH (27.7%), and also reviewed smaller numbers of applications for NCI, NIDA, NICDC, and NIDDK.

#### Neural Basis of Psychopathology, Addictions, and Sleep Disorders (NPAS)

Scientific Review Administrator: Dr. Julian Cinque

NPAS (formerly BDCN-6) addresses the neurobiological basis of addictive, behavioral, cognitive and emotional disorders across the life span. It covers a very broad range of topics including structural, functional, electrophysiological, biochemical, pharmacological, neuroanatomical, neuroendocrine, neurotoxicological, physiological, genetic, and neuropsychological aspects of these disorders.

In 2003 NPAS reviewed applications primarily for NIMH (71.5%), NIA (5.1%), and NIDA (14.5%). It also reviewed smaller numbers of applications for NIAAA, NCCAM, NCI, NIDCD, NIBIB, NHBLI, NINDS and NCRR.

#### Anterior Eye Disease (AED)

Scientific Review Administrator: Dr. Mary Custer

AED (formerly VISA) reviews basic, applied, and clinical research on the anterior portion of the eye (cornea, lens, ciliary body, and lacrimal gland) and its disorders. It is concerned with studies of the structure and function of ocular tissues, both in normal and pathological states.

In 2003 AED primarily reviewed applications for NEI (98.1%), but also reviewed a small number of applications for NIA, NCCAM, and NIDDK.

### Small Business Activities

Scientific Review Administrator: Dr. Rene Etcheberrigaray

BDCN reviews small business applications in the areas of investigation of traumatic brain or spinal cord injury, consequences of episodes of ischemia or hypoxia, the study of mental disorders, neurodegenerative diseases, and other neuropathies, and novel medical devices, monitoring systems, and adaptation/improvement of existing technologies (e.g. PET, fMRI, EEG) for CNS related conditions (epilepsy, stroke, neurodegenerative disorders, sleep abnormalities). Small business applications on vision topics, including those on devices, diagnostics, interventions, and other topics that would otherwise fit in AED, CVP, and BDPE are generally reviewed within the Vision SBIR study section in the BDCN IRG.

### Fellowships (F01)

Scientific Review Administrator: Dr. Sherry Steusse

The F01 fellowship special emphasis panel reviews fellowship applications in the areas covered by the BDCN IRG. The emphasis in F01 is on clinical disorders of the human brain and related mammalian models of disease. Areas reviewed include: clinical neurosciences and disease, neuroplasticity and neurotransmitters, cell death and injury as it applies to neurodegeneration, clinical neuroimmunology and brain tumors, developmental brain disorders, the neural bases of psychopathology and addiction, sleep disorders, genetic basis of central nervous system disorders, and eye disease. The F01 study section reviews studies of in vitro systems, animal models, and patient-oriented research.

### **Health of the Population Integrated Review Group**

The Health of the Population (HOP) IRG (formerly Social Sciences, Nursing, Epidemiology, and Methods) reviews applications for research on the broader socioenvironmental contexts in which health and health-related behavior are embedded and in which the interaction of these socioenvironmental factors with the health and health-related behavior of individuals and populations is examined. Factors studied may include social class, socioeconomic conditions, cultural factors and processes, institutions, social organization, social networks, neighborhood and regional characteristics, media, policies, social and family group membership, and racial and ethnic identity. Specific areas of interest reviewed within the HOP IRG include: studies of socioenvironmental influences on health, behavior, and development; community and organizational interventions for the prevention and modification of risk behaviors; multi-level, multi-contextual studies, behavioral genetics and heritability studies; population processes, composition and

distribution, their antecedents and consequences, and their inter-relationships with social, cultural, economic, behavioral, developmental and biomedical factors and processes; health services research on the antecedents and consequences of health services utilization, including multidisciplinary investigations of factors affecting access, organization, costs, quality, and the financing of health services; methodological issues, various statistical techniques, and modeling of phenomena relevant to behavioral and social science research; description, detection, etiology, prevention, treatment, and control of chronic and communicable diseases in the community; basic and applied research of responses to actual or potential health problems, especially symptom management in acute or chronic illness, approaches to promoting health and preventing disease, and interventions influencing patient health outcomes and reducing costs, nursing systems, and ethics; and occupational or work environments and their relationship to health and well-being of the workers. In 2003, HOP study sections held 91 meetings and reviewed 2,781 applications. 842 reviewers served on HOP review panels. (See Table 11.)

**IRG Staff:**

**Dr. Robert Weller**

**Chief**

Dedra Austin-Miller #	Grants Technical Assistant
Monica Crawford	Grants Technical Assistant
Dr. Yvette Davis	Scientific Review Administrator
Lakeshia Dixon *	Grants Clerk
Dr. Laurie Donze #	Scientific Review Administrator, CSR Intern Program
Dr. Valerie Durrant #	Scientific Review Administrator
Dr. Mary Ann Guadagno	Scientific Review Administrator
Dr. Ann Hardy	Scientific Review Administrator
Dr. Karin Helmers #	Scientific Review Administrator
Asad Isfahani	Grants Clerk
Jennifer Love	Grants Review Assistant
Dr. Gertrude McFarland	Scientific Review Administrator
Dr. Theresa Montini #	Scientific Review Administrator
Jejelola Oresanya	Grants Technical Assistant
Dr. Scott Osborne	Scientific Review Administrator
Dr. Charles Rafferty #	Scientific Review Administrator
Lynda Robinson	Lead Grants Technical Assistant
Dr. Ellen Schwartz	Scientific Review Administrator
Danny Ta	Grants Technical Assistant
Doris Trejo #	Grants Technical Assistant
Joy Van Cooten #	Grants Technical Assistant
Dr. Denise Wiesch	Scientific Review Administrator
June Williams #	Grants Technical Assistant

\* Left CSR in fiscal year 2003  
 # Joined CSR in fiscal year 2003

**Table 11.** Applications reviewed by HOP by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	601	631	753	1,985	71.4%
<b>Small Business (R41, R42, R43, R44)</b>	66	62	75	203	7.3%
<b>R21</b>	50	54	90	194	7.0%
<b>Other Research Projects (R03, R13, R15, R25, R37, R55)</b>					
	77	87	77	241	8.7%
<b>Fellowship Program (F30, F31, F32, F33)</b>					
	10	21	12	43	1.5%
<b>Research Career Programs (K01, K02, K08, K23)</b>					
	9	6	12	27	1.0%
<b>Miscellaneous Mechanisms (T15, U01, U54)</b>					
	1	1	86	88	3.2%
<b>Total</b>	814	862	1105	2,781	100.0%

The Health of the Population IRG has the following study sections:

Community-Level Health Promotion (CLHP)

Scientific Review Administrator: Dr. Ellen Schwartz

CLHP (formerly SNEM-1) reviews applications in the following areas: the broader socioenvironmental contexts in which health, disease, health-related behavior, and normal development are embedded; the interaction of socioenvironmental factors with individual factors with respect to these outcomes; effective macro-level interventions concerned with the prevention of a broad range of health risk behaviors across the life span. Basic studies may investigate social, cultural, and other socioenvironmental factors and processes and their inter-relationships with a broad range of outcomes, including mental and physical health, illness and disorder, risk and protective behaviors and behavior change, health beliefs and attitudes, and normal development and functioning across the lifespan. Intervention research may focus on the modification of health risk behaviors and health-related decision making through environmental change and/or the use of social, organizational, political and legal systems to reduce and prevent risk behaviors within the general or select populations. It includes community-based interventions, studies to develop and test theories or methods, and dissemination studies. Research approaches may include ethnographic and other qualitative methods; quantitative and mixed-method studies; cross-sectional, longitudinal, or cohort comparison designs; experimental and quasi-experimental designs; studies that focus on more than one period or transition of the life course; and international studies.

In 2003 CLHP reviewed applications primarily for NIAAA (10.4%), NIA (5.2%), NCI (36.8%), NIDA (17.0%), NIDDK (5.2%), NICHD (6.6%), and NHLBI (8.0%). It also reviewed a small number of applications for NIAMS, NIDCR, NIEHS, and NINR.

Behavioral Genetics and Epidemiology (BGES)

Scientific Review Administrator: Dr. Yvette Davis

BGES (formerly SNEM-2) reviews applications for multi-level, multi-contextual studies, behavioral genetics and heritability studies, and behavioral epidemiologic studies which seek an understanding of the origins, multiple etiologies, natural histories, and consequences of a wide range of behaviors, disorders, diseases, normal functioning, and public health concerns. Applications may include qualitative and quantitative methods and may integrate multiple factors and multiple levels of analysis from the biological to social and cultural levels. Studies may use multidisciplinary perspectives and focus on interactions among individual, family, group, and community factors in either the general population or defined subpopulations with special needs such as the very young, the elderly, minority groups, and those at risk for drug and alcohol abuse and transmission of HIV, TB, HBV, and HCV. Studies may include factors which influence temporal trends, such as economic conditions and beliefs of historic cohorts, and may address the etiologies and consequences of behaviors, physical, mental, and substance abuse problems and the aging process as they vary across individuals, families, generation, age, sex, and populations with different predisposing or protective factors and co-morbid conditions.

In 2003 BGES reviewed applications primarily for NIMH (52.6%), NIAAA (15.1%), and NIDA (22.4%), and also reviewed applications for NIA, NCI, NIDDK, NICHD, and NHLBI.

Social Sciences and Population Studies (SSPS)

Scientific Review Administrator: Dr. Robert Weller

SSPS (formerly SNEM-3) reviews applications related to population processes, composition and distribution, their antecedents and consequences, and their interrelationships with social, cultural, economic, behavioral, developmental and biomedical factors and processes. This includes studies of migration, mortality and health, residential distribution, reproduction, sexual health, population aging, labor force and retirement, household and family structure, intergenerational relations, and biodemography in the U.S. and other countries. It also includes the development and validation of methodologies for population research, including estimation and projection, formal and mathematical demography, modeling and simulation, qualitative and ethnographic methods, and measurement, design, and statistical analysis. Studies of gender, race and ethnicity as they relate to population processes are included.

In 2003 SSPS primarily reviewed applications for NIA (43.8%) and NICHD (51.2%). It also reviewed smaller numbers of applications for NCI, NIDA, NIEHS, NHLBI and NIMH.

#### Health Services Organization and Delivery (HSOD)

Scientific Review Administrator: Dr. Theresa Montini, Dr. Charles Rafferty

HSOD (formerly SNEM-4) reviews health services research studies that include multidisciplinary investigations of the predictors, processes and outcomes of health services, including availability, access and acceptability; organization; decision-making; delivery, utilization and quality of care; and costs, cost-effectiveness and financing of health care. Health services include inpatient, ambulatory, sub-acute, acute, community-based, rehabilitative and long-term care.

In 2003 HSOD reviewed applications primarily for NIA (24.6%), NCI (36.0%), NIDDK (9.0%), NICHD (7.1%), and NHLBI (10.0%). It also reviewed a small number of applications for NIAAA, NIAID, NIAMS, NCCAM, NIDA, NIDCD, NIDCR, NINR and NINDS.

#### Biostatistical Methods and Research Design (BMRD)

Scientific Review Administrator: Dr. Ann Hardy

BMRD (formerly SNEM-5) reviews applications that focus primarily upon advancing techniques and technologies that address important statistical and mathematical problems, research design and methodological issues, and the modeling of phenomena relevant to biomedical, behavioral and scientific research. BMRD reviews generic methodological research that can improve the validity, reliability, or precision of measures; the development of statistical theory and mathematical models to analyze data, clinical trial intervention studies, and non-behavioral basic science; statistical research targeted at data structures developed in clinical trials; advanced ways of using computers and/or new testing technology, or computational modeling techniques with existing data sets; or applying techniques from other disciplines (e.g., genetics, neurology, computer science) to behavioral and social science topics, as well as other biomedical areas of research. The emphasis and main focus of applications should be upon the methods, statistics, or modeling techniques.

In 2003, BMRD primarily reviewed applications for NCI (45.8%), NIGMS (7.5%), NHLBI (7.5%), and NIMH (11.2%). It also reviewed a small number of applications for NIAAA, NIA, NIAID, NIDA, NIDCR, NIDDK, NIBIB, NIEHS, NICHD, NHGRI, and NINDS.

#### Epidemiology of Chronic Diseases (ECD)

Scientific Review Administrator: Dr. Scott Osborne

ECD (formerly EDC-1) reviews applications for descriptive and analytic epidemiologic research in cardiovascular disease, reproductive or perinatal diseases or conditions (including birth weight, child growth, and menopause), musculoskeletal diseases or conditions (except among the elderly) arthritis, lupus and rheumatoid diseases (except among the elderly) diabetes, digestive disease and kidney disease, and obesity, physical activity and nutritional behavior and conditions.

In 2003 ECD primarily reviewed applications for NIDDK (34.8%), NIEHS (5.5%), NICHD (15.7%), and NHLBI (30.0%). It also reviewed applications for NIAAA, NIA, NIAID, NIAMS, NCCAM, NCI, NIDCR, NIGMS, NHGRI, and NINDS.

#### Epidemiology of Cancer (EPIC)

Scientific Review Administrator: Dr. Denise Wiesch

EPIC (formerly EDC-2) reviews applications for descriptive and analytic epidemiologic studies in the areas of cancer and environmental risk factors.

In 2003, EPIC primarily reviewed applications for NCI (89.3%) and NIEHS (6.0%). However, it also reviewed small numbers of applications for NIAAA, NIA, NIAMS, NCCAM, NIDCR, NIDDK, and NHLBI.

#### Epidemiology of Clinical Disorders and Aging (ECDA)

Scientific Review Administrator: Dr. Mary Ann Guadagno

ECDA (formerly EDC-3) reviews applications for descriptive and analytic epidemiologic studies in specific disease areas that include infectious diseases, pulmonary diseases, sleep disorders, neurologic disorders (including the epidemiology of Alzheimer's Disease, dementias, stroke, Parkinson's Disease, and epilepsy), and epidemiology of disorders of aging (including musculoskeletal disorders such as osteoarthritis, osteoporosis, falls and fractures, functional status, frailty, quality of life, health care use, and other areas as they relate to populations of older persons).

In 2003, ECDA reviewed applications primarily for NIA (29.1%), NIAID (20.0%), NIAMS (10.5%), NIEHS (10.0%), NHLBI (8.6%), and NINDS (14.1%). It also reviewed a small number of applications for NIAAA, NCCAM, NIDA, NIDCD, NIDCR, NIDDK, NIGMS, NICHD, NIMH, and NINR.

#### Nursing Science: Adults and Older Adults (NSAA)

Scientific Review Administrators: Dr. Karin Helmers, Dr. Gertrude McFarland

NSAA (formerly NURS) reviews applications that directly or indirectly address clinical nursing practice related to the care of young, middle-aged, and older adults. In addition, the Study Section reviews applications related to caregiving and illness in adults and older adults as well as health promotion and disease prevention in older adults. Nursing research in these segments of the population includes both scientific inquiry into nursing science, as well as basic biological and behavioral processes relevant to nursing care and research relating to nursing interventions in patient care. Biological, psychological, social and cultural perspectives are frequently employed in the design and conduct of nursing research, as are multidisciplinary perspectives. The interventions are designed to enhance promote recovery, and/or maintain health. Research addressing cost issues or systems issues should focus on the cost of nursing care or the environment in which nursing care is delivered and be related to patient outcomes.

In 2003 NSAA primarily reviewed applications for NINR (90.2%), but also reviewed a small number of applications for NIA, NIAMS, NCCAM, NCI, NHLBI, NIMH, NINDS and the National Library of Medicine.

#### Nursing Science: Children and Families (NSCF)

Scientific Review Administrator: Dr. Karin Helmers

NSCF (formerly NURS-2) reviews applications that directly or indirectly address clinical nursing practice from preconception through adolescence. In addition, this study section reviews applications related to health promotion across the life span (except for older adults), nursing diagnosis and treatment of human responses to actual or potential health problems, and patient outcomes responsive to nursing interventions in these populations. Nursing research in these segments of the population includes both scientific inquiry in nursing science as well as basic biological and behavioral processes relevant to nursing care and research relating to nursing interventions in patient care. Biological, psychological, social, and cultural perspectives are frequently employed in the design and conduct of nursing research, as are multidisciplinary perspectives. The outcomes are for either short or long term improvements in patient outcomes. Nursing interventions are designed to enhance disease prevention, promote recovery, and/or maintain health. Research addressing cost issues or system issues should focus on the cost of nursing care or the environment in which nursing care is delivered and be related to patient outcomes.

In 2003 NSCF primarily reviewed applications for NINR (95.7%), but also reviewed a small number of applications for NICHD.

#### Small Business Activities

Small business applications seeking to understand and elaborate the broader socioenvironmental contexts in which health and health-related behavior are

embedded and to examine the interaction of these socioenvironmental factors with the health and health-related behavior of individuals and populations are reviewed within dedicated scientific review groups within HOP. The socioenvironmental factors studied may include social class, socioeconomic conditions, cultural factors and processes, institutions, social organization, social networks, neighborhood and regional characteristics, media, policies, social and family group membership, and racial and ethnic identity.

### **Risk Prevention and Health Behavior Integrated Review Group**

The Risk, Prevention and Health Behavior (RPHB) IRG considers applications covering a wide range of biological, psychological, cultural and social conditions and traits that affect the manifestation, prevention, treatment or management of physical and mental diseases and disorders. Emphasis may be placed on individual behavior, interpersonal relations, or group contexts. Populations studied may include clinic, community-diagnosed, symptomatic and high-risk groups, and research may be concentrated on specific age groups or address questions of change or transition across the life course. Interventions may be purely behavioral, or may involve non-behavioral elements such as pharmacological treatments and devices. Specific areas of interest include: cognitive and affective processes and markers of disease and illness, genetics and other biobehavioral factors, behavioral and pharmacologic interventions; risk and protective processes and models, intra- and inter-personal interventions, social development and interpersonal processes, aggressive behavior and violence, and prevention and intervention methodology; intervention and risk factor modification studies, interactions between psychological processes and disease management, psychological and biobehavioral responses to disease screening and management, rehabilitation of conditions associated with psychological, physical, communicative, and social disability; and social, cognitive, and affective conditions and processes that influence disease and disorder across the lifespan. In 2003, RPHB study sections held 56 meetings and reviewed 1,473 applications. 520 reviewers served on RPHB review panels. (See Table 12.)

#### **IRG Staff:**

#### **Dr. Michael Micklin**

#### **Chief**

Kristy Bugbee	Lead Grants Technical Assistant
Dr. Maribeth Champoux	Scientific Review Administrator
Dr. Claire Gutkin #	Scientific Review Administrator
Michelle Isahak #	Grants Technical Assistant
Denise Lebby	Grants Technical Assistant
Dr. Victoria Levin	Scientific Review Administrator
Dr. Lee Mann	Scientific Review Administrator
Puja Matta	Grants Clerk
Dr. Anna Riley #	Scientific Review Administrator, CSR Intern Program
Lee Rotter	Grants Technical Assistant
Dr. Mariela Shirley	Scientific Review Administrator
Dr. Karen Sirocco	Scientific Review Administrator

Dr. Deborah Young-Hyman

Scientific Review Administrator

# *Joined CSR in fiscal year 2003*

**Table 12.** Applications reviewed by RPHB by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	210	279	298	787	53.4%
<b>Small Business (R41, R42, R43, R44)</b>	94	95	109	298	20.2%
<b>R21</b>	35	101	42	178	12.1%
<b>Other Research Projects (R03, R13, R15)</b>	24	23	27	74	5.0%
<b>Fellowship Program (F31, F32)</b>	27	47	37	111	7.5%
<b>Research Career Programs (K01, K02, K05, K08, K23)</b>	6	9	8	23	1.6%
<b>Miscellaneous Mechanisms (U01, U44)</b>		1	1	2	0.1%
<b>Total</b>	396	555	522	1,473	100.0%

The Risk, Prevention and Health Behavior IRG has the following study sections:

Psychosocial Development, Risk and Prevention (PDRP)

Scientific Review Administrator: Dr. Victoria Levin

PDRP (formerly RPHB-1) reviews applications that focus on the identification of risk and protective factors, processes and models and design and testing of intra- and inter-personal preventive interventions related to social development across the life span. Social contexts of interest include family relationships, intimate partner and marital relationships, social networks, peer groups, schools, and workplace settings. Research designs and methods may use quantitative or qualitative approaches. Research on risk and protective factors and preventive interventions may be focused on alcohol, tobacco, and drug abuse; violence, abuse and anti-social behavior; unintended injury; psychopathology; high-risk sexual behavior; unintended pregnancy; academic underachievement; and other negative outcomes and co-morbid conditions.

In 2003 PDRP primarily reviewed applications for NIDA (10.2%), NICHD (28.0%), and NIMH (57.1%), but also reviewed a small number of applications for NIAAA, NIA, and NCI.

Psychosocial Risk and Disease Prevention (PRDP)

Scientific Review Administrator: Dr. Deborah Young-Hyman

PRDP (formerly RPHB-2) reviews research applications for development and testing of behavioral and biobehavioral interventions to prevent or reduce risk

factors for physical conditions, diseases and disorders. Biobehavioral aspects of affect, stress, symptom perception, social support, individual differences, and other psychosocial traits or states related to pathology of somatic organs or systems are included, as well as applications studying interactions between behavioral, social, psychological, and physiological factors and conditions for which individuals receive health care. Research may involve use of animal models of specific disorders. Behavioral intervention and risk factor reduction studies may involve components consisting of pharmacological treatments or interventions using devices. Clinical studies may be designed specifically to investigate the relationships between basic psychosocial or biobehavioral variables and biological bases of disease.

In 2003, PRDP reviewed applications primarily for NIA (5.6%), NCI (39.8%), NIDDK (10.2%), NICHD (9.7%), NHLBI (17.3%) and NIMH (5.6%). It also reviewed smaller numbers of applications for NIAAA, NIAMS, NCCAM, NIDA, NIDCR, NINR and NINDS.

#### Behavioral Medicine Intervention and Outcomes (BMIO)

Scientific Review Administrator: Dr. Lee Mann

BMIO (formerly RPHB-3) reviews behavioral and biobehavioral approaches to treatment, management and rehabilitation related to physical or cognitive impairment; study of sequelae of diseases or disorders; and biobehavioral aspects of affect, stress, pain, symptom perception, social support, individual differences, and other psychosocial traits or states associated with or generated as a response to pathology. Included are applications focused on interactions between experiential, behavioral, social, psychological, and physiological factors and conditions for cognitive and neurological impairments as well as studies examining disability due to cognitive or physical impairments and effects on daily living and social support. Rehabilitation research includes studies of conditions associated with disability, including diseases, disorders or injuries that are associated with potentially chronic impairments (excluding time-limited reversible conditions). Behavioral, pharmacological and device intervention studies are included if they are designed specifically to investigate relationships between basic psychosocial or biobehavioral variables and biological bases of disease. Research applications may involve use of animal models of specific disorders.

In 2003 BMIO reviewed applications primarily for NIA (9.7%), NIAMS (6.2%), NCI (35.4%), NIDDK (10.2%), NICHD (7.5%), and NHLBI (13.3%). It also reviewed applications for NIAAA, NIAID, NCCAM, NIDA, NIDCR, NIGMS, NIMH, NINR, and NINDS.

#### Social Psychology, Personality, and Interpersonal Processes (SPIP)

Scientific Review Administrator: Dr. Michael Micklin

SPIP (formerly RPHB-4) reviews applications for research on fundamental psychological and social conditions and processes, including personality, emotions, motivation, social identities, social roles, social cognition, attitudes and attitude change, individual differences, and small group dynamics and their relation to mental and physical health and substance use/abuse. Social, cultural, situational and experiential effects and interactions are included. Basic studies may include normative or risk processes relevant to health outcomes across the life course (from infancy to old age).

In 2003, SPIP reviewed applications primarily for NIA (17.1%), NICHD (7.0%), and NIMH (66.7%). It reviewed smaller numbers of applications for NIAAA, NIAID, NCCAM, NCI, NIDA, and NINDS.

Small Business Activities (SSS-D)

Scientific Review Administrators: Dr. Claire Gutkin, Dr. Karen Sirocco

Small business applications reviewed by the RPHB IRG cover a wide range of social, behavioral, and technological interventions designed to reduce the risk of illness and disease, improve their treatment and management, and mitigate harmful consequences of illness/disease symptoms and treatments.

**Surgery, Radiology and Bioengineering Integrated Review Group**

The Surgery, Radiology, and Bioengineering (SRB) IRG is composed of four chartered study sections and five special study sections which function on the underlying principles of overlapping orbits of SRA and reviewer expertise. This results in great flexibility to respond to multidisciplinary science, hypothesis and non-hypothesis driven science, and new initiatives. The technology-oriented study sections are designed to feed into the more clinical study sections as the research evolves. The special study sections are very flexible, responsive to all mechanisms, and often the site for the review of emerging areas of research. In 2003, SRB study sections held 99 meetings and reviewed 2,815 applications. 725 reviewers served on SRB review panels. (See Table 13.)

**IRG Staff:**

**Dr. Eileen Bradley**

**Chief**

Dr. Gerald Becker	Scientific Review Administrator
Dr. Bill Bunnag	Scientific Review Administrator
Brenda Derflinger	Grants Review Assistant
Dr. Dharam Dhindsa	Scientific Review Administrator
Bonnie Ellis	Supervisory Grants Review Assistant
Shirley Gray	Grants Technical Assistant
Dianne Massay	Grants Technical Assistant
Dr. Teresa Nesbitt *	Scientific Review Administrator
Dr. Robert Nordstrom #	Scientific Review Administrator

Dr. Tracy Orr *	Scientific Review Administrator
Michael Oxman # *	Health Scientist Administrator
Mital Pancholi	Grants Technical Assistant
Dr. Paul Parakkal	Scientific Review Administrator
Dr. Arthur Petrosian #	Scientific Review Administrator
Dr. Lee Rosen	Scientific Review Administrator
David Sadri # *	Grants Technical Assistant
Dr. Behrouz Shabestari #	Scientific Review Administrator
Shannon Thornton #	Office Automation Clerk

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 13.** Applications reviewed by SRB by activity code and Council round

Mechanism	January 2003	May 2003	October 2003	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	280	365	544	1,189	42.2%
<b>Small Business (R41, R42, R43, R44)</b>	320	427	421	1,168	41.5%
<b>R21</b>	34	95	266	395	14.0%
<b>Other Research Projects (R03, R13, R15, R33, R37)</b>	8	21	8	37	1.3%
<b>Fellowship Program (F32)</b>			1	1	0.0%
<b>Research Career Programs (K01, K08, K23, K25)</b>	3	5	6	14	0.5%
<b>Research Program Projects and Centers (P01, P40)</b>	3	5	2	10	0.4%
<b>Miscellaneous Mechanisms (G08)</b>		1		1	0.0%
<b>Total</b>	648	919	1,248	2,815	100.0%

The Surgery, Radiology and Bioengineering IRG has the following study sections:

Diagnostic Imaging (DMG)

Scientific Review Administrator: Dr. Lee Rosen

DMG reviews applications dealing with the development and evaluation of new technology for imaging, including instrumentation and software for producing, evaluating, storing, and transmitting images for anatomical, physiological, metabolic, diagnostic, and therapeutic information.

In 2003 DMG primarily reviewed applications for NCI (38.6%), NIBIB (32.0%), NHLBI (9.2%), and NINDS (10.7%). It also reviewed smaller numbers of applications for NIA, NIAID, NIAMS, NIDCR, NIDDK, NEI, NICHD, NIMH, NCRR, and the National Library of Medicine.

### Diagnostic Radiology (RNM)

Scientific Review Administrator: Dr. Eileen Bradley

RNM deals with basic and clinical studies of all diagnostic imaging modalities for anatomical, physiologic, metabolic and diagnostic information. Additionally, imaging of disease progression and therapy are reviewed here.

In 2003 RNM reviewed applications primarily for NCI (51.8%), NIBIB (12.5%), NHLBI (16.5%), and NINDS (5.8%). It reviewed a small number of applications for NIA, NIAMS, NIDDK, NIGMS, NICHD, and NIMH.

### Surgery, Anesthesiology and Trauma (SAT)

Scientific Review Administrator: Dr. Gerald Becker

SAT deals with basic and clinical research in anesthesiology and surgery including but not limited to transplantation, trauma, shock, sepsis, burns, and ischemia.

In 2003 SAT primarily reviewed applications for NIAID (21.6%), NIDDK (14.3%), NIGMS (34.6%), and NHLBI (19.6%). It also reviewed a small number of applications for NIA, NIAMS, NCCAM, NCI, NIDA, NIDCD, NIBIB, NICHD, NINR and NINDS.

### Surgery and Bioengineering (SB)

Scientific Review Administrators: Dr. Dharam Dhindsa, Dr. Teresa Nesbitt

SB deals with basic and clinical investigation of surgical research primarily related to cardiac, vascular, pulmonary, and gastrointestinal systems: bioengineering, biomaterials, mechanical devices, and drug delivery.

In 2003 SB reviewed applications primarily for NIDDK (13.8%), NIBIB (19.1%), NHLBI and (55.3%). It also reviewed smaller numbers of applications for NIAAA, NIAID, NCI, NIDCD, NEI, NIGMS, NICHD, NINDS and NCRR.

### Medical Imaging Technologies (SSS-7)

Scientific Review Administrators: Dr. Robert Nordstrom, Dr. Tracy Orr

SSS-7 reviews all modalities of medical imaging, including gamma ray, MRI, functional MRI, PET, SPECT, X-ray, CT; visible, IR, and UV photons; optical, photo-acoustic, microwave acoustic, and exotic imaging methods.

Bioengineering and Physiology (SSS-8)

Scientific Review Administrator: Dr. Paul Parakkal

SSS-8 reviews applications in the general area of bioengineering and physiology with special focus on medical devices. The applications on clinical research deal with all organs of the body, except the heart and blood conduit systems.

Medical Computer Science (SSS-9)

Scientific Review Administrator: Dr. Bill Bunnag

SSS-9 reviews research related to various aspects of computer bioengineering and application of computer technology in biomedical research.

Cardiovascular Devices (SSS-W)

Scientific Review Administrator: Dr. Dharam Dhindsa

SSS-W reviews applications which primarily deal with heart and vascular devices. Many are used for monitoring physiological parameters such as ECG, blood pressure, and blood oxygen saturation. The devices are designed for adults, children, babies, and fetuses.

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## **Division of Molecular and Cellular Mechanisms**

The Division of Molecular and Cellular Mechanisms (DMCM) is responsible for the merit review of a wide range of science, particularly basic science, but including clinical science in some areas, e.g., biology of aging. In addition, the Division promotes review of technology development even in the absence of a hypothesis driven setting.

At the close of fiscal year 2003, DMCM consisted of six Integrated Review Groups (IRGs): 1) Biochemical Sciences (BCS); 2) Biology of Development and Aging (BDA); 3) Biophysical and Chemical Sciences (BPC); 4) Cell Development and Function (CDF); 5) Genetic Sciences (GNS); and 6) Molecular, Cellular and Developmental Neuroscience (MDCN). In 2003, DMCM study sections held a total of 313 meetings and reviewed 9,959 applications.

### **Changes in the Division in 2003**

In 2003, DMCM launched BDA by appointing Sherry Dupere as IRG Chief, moving two other SRAs from CDF and hiring two SRAs from the National Institute of Aging. Provisional rosters were posted in the spring of 2003, and the first study sections were held in October and November of 2003. BDA represents a new integrated approach to development and aging as such applications were previously widely distributed in a number of study sections that often focused on other aspects of science. 2003 also saw significant growth in BPC, CDF, and GNS, and the Division began steps to create the Bioengineering Sciences and Technologies (BST) IRG by appointing Sally Amero as IRG Chief. Also in FY 2003, DMCM study sections reviewed large numbers of applications for the National Institute Biomedical Imaging and Bioengineering (NIBIB). Finally, as part of CSR's reorganization of its Division structure the IMM and IDM IRGs were transferred from DMCM to DBBD (see page 17).

### **Changes in the Division Anticipated in 2004**

A large event in 2004 will be the launching of the BST IRG. BST represents a new effort to promote technology development in the basic sciences. With the start of BST in early 2004, DMCM will have seven IRGs for one year. Further growth is anticipated in BPC, CDF, GNS, and MDCN. In late 2004, the Genetics Sciences IRG will undergo reorganization and become Genes, Genomes, and Genetics (GGG). DMCM will also begin the process of reorganizing BCS, CDF and BPC into two new IRGs, Cell Biology (CB) and Biological Chemistry and Macromolecular Biophysics (BCMB). These new IRGs are expected to hold their first meetings in fiscal year 2005.

### **IRG Chief and Review Staff Personnel Changes in Fiscal Year 2003**

Sherry Dupere was recruited as Chief of BDA and Sally Amero as Chief of BST. The following SRAs left DMCM in 2003: Michael Sayre, Michael Schaefer, Gillian Einstein, Peter Lyster, Michael Nunn. DMCM recruited 8 SRAs during fiscal year 2003, including

Ping Fan, James Harwood, Charles Hollingsworth, Richard Currie, Michael Marino, Barbara Whitmarsh, Lawrence Baizer, Robert Lees, and Mary Custer.

**Division Staff:**

**Dr. Donald Schneider**

**Director**

Pamela Bobbit  
 Barbara David  
 Dr. Alec Liacouras #  
 Dr. Gerald Liddel #\*

Administrative Review Assistant  
 Review Technology Assistant  
 Scientific Review Administrator  
 Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Biochemical Sciences Integrated Review Group**

The Biochemical Sciences (BCS) IRG reviews basic and clinically oriented biochemistry, including mechanistic enzymology in biosynthesis, transport, assimilation, regulation and degradation of proteins, carbohydrates and lipids in *in vivo* and *in vitro* systems; signal transduction; structure-function relationships of proteins and components of extracellular matrix and associated biological phenomenon; role of the extracellular matrix in normal biological and disease processes; molecular basis of metabolic diseases including inborn errors of metabolism; and applications of drugs, enzymes, and gene therapies in the treatment of disease states associated with inborn errors of metabolism. In 2003, BCS study sections held 42 meetings and reviewed 1083 applications. 450 reviewers served on BCS review panels. (See Table 14.)

**IRG Staff:**

**Dr. Zakir Bengali**

**Chief**

Phoebe Allison  
 Dr. Prabhakara Atreya  
 Paul Brohawn  
 Insana Collins #\*  
 Margot Cox #  
 Dr. Camilla Day  
 Dr. Alexander Gubin #  
 Dr. Richard Panniers  
 Rashelle Robinson \*  
 Dr. Michael Sveda #

Lead Grants Technical Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Grants Technical Assistant  
 Grants Technical Assistant  
 Scientific Review Administrator  
 Scientific Review Administrator, CSR Intern Program  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 14.** Applications reviewed by BCS by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	173	250	272	695	64.2%
<b>Small Business (R41, R43, R44)</b>	69	78	90	237	21.9%
<b>R21</b>	4	13	95	112	10.3%
<b>Other Research Projects (R03, R15, R37)</b>					
	1	9	7	17	1.6%
<b>Research Program Projects and Centers (P01, P20, P41)</b>					
	2	2	1	5	0.5%
<b>Miscellaneous Mechanisms (S10)</b>					
	8		9	17	1.6%
<b>Total</b>	<b>257</b>	<b>352</b>	<b>474</b>	<b>1,083</b>	<b>100.0%</b>

The BCS IRG has the following study sections:

#### Biochemistry (BIO)

Scientific Review Administrator: Dr. Michael Sveda

BIO reviews applications on mechanistic enzymology, as well as biochemical and molecular biological approaches to determine protein folding, structure-function relationships.

In 2003, BIO reviewed applications primarily for NIGMS (69.8%), NIAID (9.0%), NCI (11.0%), and NIDDK (6.3%). It also reviewed a small number of applications for NIA, NIAMS, NEI, NHLBI, and NINDS.

#### Medical Biochemistry (MEDB)

Scientific Review Administrator: Dr. Camilla Day

MEDB held its final meetings in February of 2003.

During 2003, MEDB reviewed applications primarily for NIDDK (41.2%), NIAID (5.2%), NIAMS (5.2%), NCI (5.2%), NIGMS (18.6%), NHLBI (10.3%), and NINDS (6.2%). It also reviewed a small number of applications for NIA, NIDA, NEI, NICHD, and NHGRI.

#### Pathobiochemistry (PBC)

Scientific Review Administrator: Dr. Zakir Bengali

PBC reviews applications in the following areas: 1) Biochemical structure, synthesis, breakdown, interactions and functional analysis of extracellular matrix components (such as collagens, laminins, fibronectin, thrombospondins, fibrillins, elastin, proteoglycans); 2) Structure and expression of cell adhesion molecules (such as integrins, syndecans and cadherins) and their cell:cell and cell:matrix

interactions (including matrix ligands, growth factors, cytoskeleton, signaling assemblies) and associated cellular phenomena such as signal transduction, cell motility, phenotypic expression, apoptosis, etc.; 3) Mechanism of action of extracellular proteases involved in matrix modeling, remodeling, and degradation; 4) Role of the extracellular matrix in normal biological processes (such as development), as well as in disease and injury (for example, wound healing/repair, tumor invasion/metastasis, angiogenesis, vascular diseases, degenerative diseases such as arthritis, etc.); 5) Biochemical structure and biosynthesis of glycosyltransferases and sugar nucleotide transporters; 6) Metabolism of glycosidases; 7) Intracellular trafficking of lipid and protein-linked carbohydrates; and 8) Functions of carbohydrates in, for example, mediating cell adhesion, promoting metastasis and ligand binding.

In 2003, PBC primarily reviewed applications for NIAID (5.6%), NIAMS (12.2%), NCI (28.9%), NIGMS (30.0%), and NHLBI (12.2%). It also reviewed a small number of applications for NIA, NIDDK, NICHD, and NINDS.

### Physiological Chemistry (PC)

Scientific Review Administrator: Dr. Richard Panniers

PC reviews applications focused on the structure, physiological function, and enzymology of the following systems: 1) Cell membrane and regulatory lipids, including glycolipids (e.g., assembly and structure of membrane lipid complexes, lipid trafficking); 2) Membrane biochemistry, including assembly and microdomains/rafts; 3) Glycoproteins, including their characterization, synthesis and processing; 4) Membrane Transporters (e.g., Na, K, Ca, Fe); 5) Cholesterol, fatty acids, lipoproteins and their receptors; 6) Signaling, polypeptide receptors, docking proteins, G proteins (small and heterotrimeric), serine and tyrosine protein kinases and phosphatases, calcium, nitric oxide, lipid modification, and novel signaling agents; 7) Cell cycle, DNA replication, repair and recombination; 8) Ribosomes/tRNA/Translation; 9) Regulation of gene expression (including hormonal and environmental regulation) through modulation of transcription, RNA processing, and translation; 9) Protein processing and trafficking; and 10) Mitochondrial biogenesis.

In 2003 PC reviewed applications primarily for NIGMS (56.2%), NIA (5.8%), NCI (11.6%), NIDDK (15.7%), and NHLBI (5.8%). However, it also reviewed a small number of applications for NIA, NIEHS, NICHD, NIMH and NINDS.

### Small Business Activities (SSS-2)

Scientific Review Administrator: Dr. Prabhakara Atreya

SSS-2 reviews small business applications in the areas of: purification and biochemical analysis of proteins, including glycoproteins, proteoglycans,

enzymes, receptors, signaling proteins, and nucleic acid binding proteins; protein engineering and heterologous protein expression methods including transgenic plant expression systems; large-scale production of proteins, fermentors, bioreactors and biosensors; methodologies to develop, and use of protein microarrays (or protein chips); development of non-immunochemical assays and high throughput screening of proteins; proteomics (development of methodologies, information generation for, and utilization of protein databases); gene-based therapeutics, the development of viral and non-viral vectors and electroporation-mediated techniques for gene delivery; and enzyme replacement therapies.

## **Biology of Development and Aging Integrated Review Group**

The Biology of Development and Aging (BDA) IRG considers research applications that are focused on development and/or aging and that employ approaches at a variety of levels from molecules to whole organisms. Development and aging are inherently integrative research areas focusing on biological changes over time and proposals in this IRG will frequently transcend the boundaries of single organs or systems. BDA held its first meetings in October 2003.

### **IRG Staff:**

#### **Dr. Sherry Dupere**

#### **Chief**

Dr. Ping Fan #

Scientific Review Administrator

Carla Giddings #

Grants Technical Assistant

Dimple Giri #

Grants Technical Assistant

Dr. James Harwood #

Scientific Review Administrator

Dr. Charles Hollingsworth #

Scientific Review Administrator

Sheila Jones

Lead Grants Technical Assistant

Dr. Sandy Warren

Scientific Review Administrator

# *Joined CSR in fiscal year 2003*

The Biology of Development and Aging had the following study sections:

#### Development 1 (DEV-1)

Scientific Review Administrator: Dr. Sherry Dupere

This study section reviews applications covering a wide range of topics in developmental biology using diverse animal and plant models. Cellular, biochemical, genetic and molecular approaches to developmental problems at the level of cells, tissues, organs and the whole organism are appropriate. Emphasis is on the development of the gametes and on organogenesis.

Development 2 (DEV-2)

Scientific Review Administrator: Dr. Sherry Dupere

This study section reviews applications covering a wide range of topics in developmental biology using diverse animal and plant models. Cellular, biochemical, genetic and molecular approaches to developmental problems at the level of cells, tissues, organs and the whole organism are appropriate. Emphasis is on pattern formation, stem cells, evolution, primordial birth defects, and early embryonic development.

Cellular Mechanisms in Aging and Development (CMAD)

Scientific Review Administrator: Dr. James Harwood

CMAD reviews applications involving molecular and cell biological mechanisms of development and aging, encompassing studies ranging from single cells to whole organisms. The focus is on temporal aspects of: chromosome dynamics, cell death, cell-cycle control, cellular responses to stress, cellular communication, stem cells, physiologic regulation, and determinants of longevity and other age-related functional changes.

Aging Systems and Geriatrics (ASG)

Scientific Review Administrator: Dr. Charles Hollingworth

ASG reviews applications involving aging humans or animals, in particular studies of postmaturational changes, which transcend single organ systems or disciplines, and which may require integrated experimental, genetic or observational approaches.

International and Cooperative Projects 1 and 2 (ICP-1, ICP-2)

Scientific Review Administrators: Dr. Sandy Warren, Dr. Ping Fan

The ICP Study Sections address international collaborative research applications processed and supported by the Fogarty International Center and other special programs supported by the various institutes. The applications are broad and involve the biomedical, biochemical, neurological, physiological, clinical, and public health sciences. Members of the Study Sections therefore constitute broadly multidisciplinary review groups. ICP-1 and ICP-2 held their first meetings as part of the BDA IRG in October 2003.

## Biophysical and Chemical Sciences Integrated Review Group

The Biophysical and Chemical Sciences (BPC) IRG reviews applications on the chemistry and biophysical behavior of biologically and medically important molecules. This includes their isolation, structural determination, identification of biomolecular functional relationships, and the chemistry of drug discovery and biological processes, as well as bioengineering and the development of biophysical and analytical instrumentation. The range of science is often multidisciplinary and includes techniques such as: x-ray crystallography; electron microscopy; electron paramagnetic resonance (EPR) and nuclear magnetic resonance (NMR) spectroscopies and related bioimaging techniques; mass spectrometry; optical spectroscopies; and related biophysical techniques. In 2003, BPC study sections held 81 meetings and reviewed 2,964 applications. 988 reviewers served on BPC review panels. (See Table 15.)

### IRG Staff:

#### Dr. John Bowers

#### Chief

Fettina Bryant #	Grants Technical Assistant
Dr. Noni Byrnes	Scientific Review Administrator
Dr. George Chacko	Scientific Review Administrator
Sherry Ernde	Lead Grants Technical Assistant
Denise Glasgow *	Grants Technical Assistant
Krishna Jain	Grants Technical Assistant
Dr. David Jollie	Scientific Review Administrator
Dr. Nancy Lamontagne	Scientific Review Administrator
Dr. Robert Lees #	Scientific Review Administrator
Geraldine McCray	Grants Technical Assistant
Dr. Janet Nelson	Scientific Review Administrator
Olamide Oloko #	Grants Technical Assistant
Eric Phillips	Grants Technical Assistant
Dr. Harold (Mike) Radtke	Scientific Review Administrator
Dr. Gopa Rakhit	Scientific Review Administrator
Dr. Arnold Revzin	Scientific Review Administrator
Dr. Sergei Ruvinov	Scientific Review Administrator
Beverly Schettig	Grants Technical Assistant
Virginia Shifflett #	Grants Technical Assistant
Dr. Vonda Smith	Scientific Review Administrator
Melissa Tobe	Grants Technical Assistant
Maria Tullis *	Grants Technical Assistant
Sherry Ugochukwu	Grants Technical Assistant
Wendy Washington #	Grants Technical Assistant

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 15.** Applications reviewed by BPC by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	477	509	581	1567	52.9%
<b>Small Business (R41, R42, R43, R44)</b>	192	192	253	637	21.5%
<b>R21</b>	28	39	109	176	5.9%
<b>Other Research Projects (R03, R13, R15, R24, R33, R37)</b>					
	46	34	53	133	4.5%
<b>Fellowship Program (F31, F32, F33)</b>	87	124	129	340	11.5%
<b>Research Career Programs (K25)</b>	2		1	3	0.1%
<b>Research Program Projects and Centers (P01, P41)</b>					
	2	20	6	28	0.9%
<b>Miscellaneous Mechanisms (S10)</b>	52		28	80	2.7%
<b>Total</b>	<b>886</b>	<b>918</b>	<b>1160</b>	<b>2964</b>	<b>100.0%</b>

The Biophysical and Chemical Sciences IRG has the following study sections:

#### Molecular and Cellular Biophysics (BBCA)

Scientific Review Administrator: Dr. Nancy Lamontage

BBCA covers biophysical and physical chemical research on biological macromolecules and some aspects of the physical chemistry of biologically important small molecules. The research utilizes methodologies such as NMR, X-ray crystallography, spectroscopy, modeling, and computational/thermodynamic/kinetic analysis

In 2003 BBCA reviewed applications primarily for NIGMS (78.6%), NIAID (6.9%), and NCI (6.2%). It also reviewed applications for NIA, NIAID, NIDCD, NIDDK, NIBIB, NEI, NICHD, NHGRI, NHLBI, and NINDS.

#### Biophysical Chemistry (BBCB)

Scientific Review Administrator: Dr. Arnold Revzin

BBCB reviews applications in which the major emphasis is on the physical chemistry and structure of proteins, lipids, and other biopolymers, including studies of the biological, chemical, and include X-ray crystallography, NMR, EPR, and spectroscopy. BBCB also reviews proposals for the development of biophysical instrumentation. A particular forte of BBCB is the area of macromolecular assemblies, including model membranes and muscle.

In 2003 BBCB primarily reviewed applications for NIGMS (61.0%), NIAID (7.5%), NIBIB (7.5%), and NHLBI (5.2%). It reviewed smaller numbers of applications for NIA, NIAMS, NCI, NIDA, NIDDK, NEI, NHGRI, NIMH, NINDS, and NCRR.

#### Bioanalytical Engineering and Chemistry (BECM)

Scientific Review Administrator: Dr. Noni Byrnes

The BECM Continuing Special Emphasis Panel primarily reviews R01 applications in the following areas: analytical chemistry, clinical chemistry, micro and nanofabrication, biophysical and analytical technology, methods and instrument and device development for detection, identification and quantification of compounds of biomedical interest. These include mass spectrometry, proteomics, chromatography, capillary electrophoresis, microfluidics, lab-on-a-chip, microfabricated devices, optical spectroscopy, electrochemical methods, sensor development (optical, electrochemical, biosensor, immunosensor), surface modification, protein microarrays, and single cell analyses.

In 2003 BECM primarily reviewed applications for NIAID (8.3%), NCI (8.9%), NIBIB (25.6%), and NIGMS (35.1%). It reviewed smaller numbers of applications for NIA, NIDA, NIDDK, NIEHS, NICHD, NHGRI, NHLBI, NIMH, NINDS, NCRR, and the Centers for Disease Control and Prevention.

#### Metallobiochemistry (BMT)

Scientific Review Administrator: Dr. Janet Nelson

BMT reviews applications in bioinorganic and metallobiochemistry, including: metalloproteins, metalloenzyme, synthetic inorganic, and coordination chemistry; maintenance of metal ion homeostasis including receptor proteins involved in metal transport, trafficking and regulation; mechanistic, thermodynamic, and genetic characterization of metallobiopolymer structure and function; fundamental studies of the mechanisms of electron transfer; and multidisciplinary research involving mutagenesis, EPR, NMR, XAFS, and crystallography.

In 2003 BMT reviewed applications primarily for NIGMS (66.7%), NIAID (5.7%), NCI (6.3%), and NIDDK (9.4%). It also reviewed a small number of applications for NIAAA, NIA, NIBIB, NIEHS, NHLBI, and NINDS.

#### Bio-organic and Natural Products Chemistry (BNP)

Scientific Review Administrator: Dr. Mike Radtke

BNP reviews applications in the areas of bio-organic chemistry and natural products chemistry. The primary emphasis of the latter is on isolation and structure

determination of natural products that are of medicinal importance. Synthetic and modeling studies are covered when they are part of the scope, as well as routine biochemical, biological, pharmacological, or chemotherapeutic evaluations. The focus is on understanding the chemistry of drug discovery and biological processes. BNP reviews peptide chemistry, enzyme mechanism and inhibitor studies, synthesis of nucleotides and nucleosides, carbohydrate chemistry, molecular recognition experiments, medicinal chemistry, and the isolation and biosynthesis of natural products.

In 2003 BNP reviewed applications primarily for NIAID (18.9%), NCI (25.9%), and NIGMS (42.5%). However, it also reviewed small numbers of applications for NIA, NIAMS, NCCAM, NIDDK, NIBIB, NIEHS, NHLBI, NIMH, and NINDS.

#### Medicinal Chemistry (MCHA)

Scientific Review Administrator: Dr. Robert Lees

MCHA reviews applications primarily concerned with the synthesis, reactions, and biochemical, biological, pharmacological or chemotherapeutic activity of low molecular weight compounds of natural or synthetic origin. These include drugs, hormones, vitamins, carbohydrates, fats, steroids, alkaloids, and terpenes.

In 2003 MCHA primarily reviewed applications for NIGMS and NCI (16.4%), and also reviewed small numbers of applications for NIA, NIAID, NIAMS, NIDA, NIDDK, NIBIB, NHLBI, NIMH, NINDS, and the Centers for Disease Control and Prevention.

#### Physical Biochemistry (PB)

Scientific Review Administrator: Dr. Gopa Rakhit

PB reviews applications relating to research in biochemistry with an orientation towards physical biochemistry. This includes chemical reactions in biological systems, including biochemical energetics, enzymology, and the structure-function relationships of biomolecules.

In 2003 PB reviewed applications primarily for NIGMS (66.1%), NIAID (11.1%), NCI (7.0%), NIDDK (5.8%), and NHLBI (7.0%). It also reviewed applications for NIA, NIEHS, NEI, and NINDS.

#### Small Business Activities (SSS-L, SSS-6)

Scientific Review Administrators: Dr. Sergei Ruvinov, Dr. Vonda Smith

The BPC IRG reviews small business applications within the areas covered by its chartered study sections, including: analytical biochemistry; inorganic chemistry;

biochemistry; theoretical, combinatorial, and computational chemistry; metallobiochemistry; biophysics; clinical assays (except immunoassays); analytical and clinical colorimetry, spectrophotometry and bioimaging, (except MRI), mass spectrometry, and chromatography (gas, liquid, HPLC, and thin layer); chemical sensors; clinical chemistry; *in vitro* and *in vivo* reagents. It also covers medicinal chemistry--synthetic, combinatorial, and natural product chemistry; pharmaceutical chemistry--prodrugs, diagnostics, formulations, controlled release, polymers, microcapsules, liposomes, and transdermals; pharmacology and toxicology as applied to drug discovery; agents for bioremediation; and drug manufacturing and delivery equipment. Finally, small business proposals on molecular and structural biology, protein and nucleic acid structures and interactions are reviewed within the BPC IRG.

#### Fellowships (F04)

Scientific Review Administrator: Dr. David Jollie

F04A reviews fellowship applications covering the chemistry of biologically and medicinally important molecules. This includes the synthesis, isolation and structural determination of small molecules as well as the chemistry of drug discovery and biological processes; structure-function relationships of enzymes and metalloproteins by kinetic and substrate analog studies; characterization of the chemistry of biologically relevant macromolecules including biopolymers and biomaterials; and development of analytical instrumentation and biosensors.

#### **Cell Development and Function Integrated Review Group**

The Cell Development and Function (CDF) IRG is mainly focused on fundamental aspects of cellular function in eukaryotic cells and tissues. These include the genesis, structure, and function of cells and organelles; cell compartmentalization and vesicular transport; cell motility; chromatin structure and function; transcription, DNA replication; RNA processing and stability; translational control; regulation of the cell cycle; cell death; cell-cell and cell-substrate interactions; intracellular and intercellular signal transduction; growth factors; oncogene and tumor suppressor function in mitogenesis and transformation; membrane transport processes; some aspects of developmental biology; and differentiation of cells and tissues. In 2003, CDF study sections held 63 meetings and reviewed 2,343 applications. 742 reviewers served on CDF review panels. (See Table 16.)

#### **IRG Staff:**

**Dr. Marcia Steinberg**

**Chief**

Dr. Alexandra Ainsztein

Gail Carew<sup>#\*</sup>

Dr. Michael Chaitin

Dr. Richard Currie<sup>#</sup>

Scientific Review Administrator

Grants Technical Assistant

Scientific Review Administrator

Scientific Review Administrator

Tracey David	Lead Grants Technical Assistant
Dr. Sherry Dupere	Scientific Review Administrator
Dr. Gerhard Ehrenspeck	Scientific Review Administrator
Dr. Ping Fan #	Scientific Review Administrator
Patricia Fernandez	Grants Technical Assistant
Dimple Giri #	Grants Technical Assistant
Dr. Raya Mandler #	Scientific Review Administrator, CSR Intern Program
Joann Mayes	Grants Technical Assistant
Dr. Ramesh Nayak	Scientific Review Administrator
Sean Owens	Grants Technical Assistant
Shelby Randolph	Grants Technical Assistant
Dr. Richard Rodewald	Scientific Review Administrator
Dr. Michael Sayre *	Scientific Review Administrator
Wykena Waiters	Grants Technical Assistant
Dr. Sandy Warren	Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 16.** Applications reviewed by CDF by activity code and Council round

Mechanism	January 2003	May 2003	October 2003	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	401	536	545	1482	63.3%
<b>Small Business (R41, R43, R44)</b>	34	39	38	111	4.7%
<b>R21</b>	10	12	76	98	4.2%
<b>Other Research Projects (R03, R13, R15, R24, R37)</b>	16	20	89	125	5.3%
<b>Fellowship Program (F31, F32, F33)</b>	78	134	144	356	15.2%
<b>Research Career Programs (K25)</b>		1	1	2	0.1%
<b>Research Program Projects and Centers (P01, P41)</b>	1	1	5	7	0.3%
<b>Miscellaneous Mechanisms (D43, S10, T15, T35, U01, U13)</b>	87	34	41	162	6.9%
<b>Total</b>	627	777	939	2343	100.0%

The Cell Development and Function IRG has the following study sections:

Cell Development and Function 1 (CDF-1)

Scientific Review Administrators: Dr. Richard Currie, Dr. Michael Sayre

CDF-1 addresses molecular mechanisms of eukaryotic gene regulation and related cellular functions.

In 2003 CDF-1 primarily reviewed applications for NIGMS (78.9%), NCI (9.8%), and NIDDK (5.4%), and also reviewed a small number of applications for NIA, NIAID, NIAMS, NICHD, NHLBI, and NINDS.

### Cell Development and Function 2 (CDF-2)

Scientific Review Administrator: Dr. Ramesh Nayak

CDF-2 addresses mechanistic and structural aspects of membrane biology, cell motility, cell division, molecular mechanisms of eukaryotic gene regulation, and basic cellular and molecular aspects of cell senescence.

In 2003 CDF-2 primarily reviewed applications for NIGMS (78.1%), NIA (6.9%), and NCI (7.7%). It reviewed smaller numbers of applications in NIAID, NIAMS, NIDDK, NICHD, NHLBI, NIMH, and NINDS.

### Cell Development and Function 3 (CDF-3)

Scientific Review Administrator: Dr. Gerhard Ehrenspeck

CDF-3 addresses growth and phenotypic expression of cells in vitro, regulation of the cell cycle, and structure and function of the plasma membrane.

In 2003 CDF-3 reviewed applications primarily for NCI (42.2%), NIGMS (42.2%) and NIAID (5.6%), but also reviewed small numbers of applications for NIAMS, NIDCD, NIDCR, NIDDK, NIEHS, NICHD, NHLBI, and NINDS.

### Cell Development and Function 4 (CDF-4)

Scientific Review Administrator: Dr. Alexandra Ainsztein

CDF-4 addresses cell motility; cell compartmentalization and vesicular transport mechanisms; cell-cell and cell-substrate interactions; signaling; and developmental biology.

In 2003 CDF-4 primarily reviewed applications for NIGMS (72.0%) and NICHD (8.0%). It also reviewed smaller numbers of applications for NIAID, NIAMS, NCI, NIDCD, NIDDK, NIBIB, NEI, NHLBI, and NINDS.

### Cell Development and Function 5 (CDF-5)

Scientific Review Administrator: Dr. Sherry Dupere

This study section was reorganized to the DEV-2 study section as part of BDA in early fiscal year 2004. It held its final meetings in June 2003.

In 2003, CDF-5 reviewed applications primarily for NCI (9.7%), NIGMS (34.5%), NICHD (28.8%) and NHLBI (9.7%). It reviewed smaller numbers of applications for NIA, NIAMS, NICDC, NIDCR, NIDDK, NINDS and NCRR.

#### Biology and Diseases of the Posterior Eye (BDPE)

Scientific Review Administrator: Dr. Michael Chaitin

BDPE (formerly VISIC) reviews applications for basic, applied, and clinical research on the posterior portion of the eye, i.e., that are focused on the structure, function, and disorders of the retina, retinal pigmented epithelium, choroid, and retinal vasculature. It also addresses related disorders such as degenerative and vascular diseases and the retinal involvement in diabetes.

In 2003 BDPE primarily reviewed applications for NEI (96.9%), but also reviewed a small number of applications for NIDDK, NIBIB, NIEHS, NIGMS, and NIMH.

#### International and Cooperative Projects 1 and 2 (ICP-1, ICP-2)

Scientific Review Administrators: Dr. Sandy Warren, Dr. Ping Fan

ICP-1 and ICP-2 address international collaborative research applications processed and supported by the Fogarty International Center and other special programs supported by the various institutes. The applications are broad and involve the biomedical, biochemical, neurological, physiological, clinical, and public health sciences. These study sections held their last meetings as part of CDF in June of 2003.

All applications reviewed by ICP-1 and ICP-2 in 2003 were for the Fogarty International Center.

#### Small Business Activities (SSS-U)

Scientific Review Administrator: Dr. Marcia Steinberg

SSS-U reviews proposals from the small business community that involve use or development of instrumentation for light, electron, and confocal microscopy, flow cytometry, high throughput screening and image analysis using specific natural or synthetic contrast agents. Often applications will contain complementary innovative technology or software development for analysis of cellular processes or three-dimensional images. New products or processes are the anticipated outcomes of these SBIR proposals. In addition, applications are accepted from the small business community in the full range of research areas in cell biology reviewed in other CDF study sections.

Fellowships (F05)

Scientific Review Administrator: Dr. Richard Rodewald

F05 focuses on molecular, cellular, and developmental biology of cells and tissues. This includes most aspects of the genesis, structure, and function of: cells and cell organelles; cell compartmentalization and vesicular transport; cell motility; gene expression, including structure and function of chromatin, transcription, RNA processing and stability, and translation; regulation of the cell cycle, cell death, and cell senescence; cell-cell and cell-substrate interactions; Intracellular and intercellular signal transduction; the structure and function of membrane transport processes; and cellular and developmental biology, including molecular/cellular embryogenesis, induction, pattern formation, and differentiation of cells and tissues. F05 also reviews fellowships in the area of posterior eye cell biology.

**Genetic Sciences Integrated Review Group**

The Genetic Sciences (GNS) IRG reviews grant applications in all areas of genetic and genomic analysis. This includes basic studies in model systems, as well as studies in humans directly related to genetic diseases and other inherited traits. In addition to proposals involving laboratory-based techniques, those focusing on areas such as quantitative, evolutionary, and statistical genetics are reviewed here. Technology development in areas related to genomics and genetics, including bioinformatics, is also covered in this IRG. Finally, applications addressing the ethical, legal, and social implications of human genetic studies are reviewed within the GNS IRG. In 2003, GNS study sections held 50 meetings and reviewed 1,601 applications. 499 reviewers served on GNS review panels. (See Table 17.)

**IRG Staff:****Dr. Camilla Day****Chief**

Dr. Sally Amero	Scientific Review Administrator
Eulis Barclay	Lead Grants Technical Assistant
Christine Clarke	Lead Grants Technical Assistant
Dr. Cheryl Corsaro	Scientific Review Administrator
Dr. Xiaodu Guo #	Scientific Review Administrator, CSR Intern Program
Dr. Michael Marino #	Scientific Review Administrator
Dr. Mary McCormick	Scientific Review Administrator
Brenda Mitchell *	Lead Grants Technical Assistant
Arlington Morgan # *	Grants Technical Assistant
Marcia Morris	Grants Technical Assistant
Taiwo Oladapo #	Grants Technical Assistant

Dr. David Remondini  
 Diana Robinson  
 Dr. Michael Schaefer \*

Scientific Review Administrator  
 Grants Technical Assistant  
 Scientific Review Administrator

Daniel Smith #  
 Dr. Barbara Whitmarsh #

Grants Technical Assistant  
 Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 17.** Applications reviewed by GNS by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	208	283	332	823	51.4%
<b>Small Business (R41, R42, R43, R44)</b>	97	89	106	292	18.2%
<b>R21</b>	16	22	34	72	4.5%
<b>Other Research Projects (R03, R13, R15, R24, R25, R33, R37)</b>	28	27	34	89	5.6%
<b>Fellowship Programs (F31, F32, F33)</b>	69	126	83	278	17.4%
<b>Research Career Programs (K01, K02, K08, K23, K25)</b>	2	6	5	13	0.8%
<b>Research Program Projects and Centers (P01, P40)</b>	1	2	2	5	0.3%
<b>Miscellaneous Mechanisms (S10, U01, U24)</b>	26	2	1	29	1.8%
<b>Total</b>	447	557	597	1,601	100.0%

The Genetic Sciences IRG has the following study sections:

Ethical, Legal and Social Issues of Human Genetics (ELSI)

Scientific Review Administrators: Dr. Cheryl Corsaro

The ELSI Special Emphasis Panel reviews ethical, legal, and social implications of human Genetics, including: 1) Psychosocial, ethical, and legal issues for both consumers and professionals in testing for genetic diseases including cancer; 2) Sociological/anthropological studies related to human Genetics; 3) Philosophical studies; and 4) Genetic policy studies; and history of science studies.

Genetics (GEN)

Scientific Review Administrator: Dr. David Remondini

GEN reviews applications dealing with hereditary aspects of all biological systems that could be useful in elucidating basic or fundamental principles applicable to biomedical science. The commonly used organisms include but are not limited to:

Drosophila and other insects; yeast and other fungi; nematodes; Arabidopsis, maize, Chlamydomonas, and other plants; Zebrafish; amphibians; and birds.

In 2003 GEN primarily reviewed applications for NIGMS (77.5%), and NIAID (8.4%), but also reviewed a small number of applications for NIA, NIAMS, NCI, NIDCR, NIDDK, NIEHS, NEI, NICHD, NHGRI, NHLBI, NIMH, NINDS and NCRR.

### Genome (GNM)

Scientific Review Administrator: Dr. Sally Amero

GNM reviews applications focused on genomics, Genetics, technology development, and informatics. These studies can focus on the human and/or model organisms.

In 2003 GNM primarily reviewed applications for NIAID (6.6%), NCI (7.4%), NIGMS (24.9%), NHGRI (33.1%), and NIMH (10.1%). It also reviewed a small number of applications for NIAAA, NIA, NIAMS, NIDCD, NIDDK, NICHD, NHLBI, NINDS, NCRR, and the National Library of Medicine.

### Gene Therapy Inborn Errors (GTIE)

Scientific Review Administrator: Dr. Camilla Day, Dr. Barbara Whitmarsh

The GTIE Special Emphasis Panel reviews applications focused on the molecular genetic basis of metabolic diseases, including inborn errors of metabolism and associated enzymology.

### Mammalian Genetics (MGN)

Scientific Review Administrator: Dr. Cheryl Corsaro

MGN reviews both medical and basic studies of humans and other mammals where the major emphasis is on genetic approaches.

In 2003 MGN primarily reviewed applications for NIA (6.7%), NCI (11.4%), NIDDK (6.3%), NIGMS (13.0%), NICHD (11.0%), NHLBI (8.3%), NIMH (15.4%) and NINDS (11.0%). It also reviewed a small number of applications for NIAAA, NIAID, NIAMS, NIDA, NIDCD, NIDCR, NIEHS, NEI, NHGRI, and NCRR.

### Fellowships (F08)

Scientific Review Administrator: Dr. Mary McCormick

F08 reviews fellowship applications in prokaryotic and eukaryotic genetics and molecular biology. This involves several overlapping scientific disciplines employing a large variety of prokaryotic and eukaryotic biological systems (e.g., animals, bacteria, fungi, parasites, plants, viruses, etc), particularly at the molecular level.

## **Molecular, Cellular and Developmental Neuroscience Integrated Review Group**

The Molecular, Cellular, and Developmental Neuroscience (MDCN) IRG reviews applications on the structure and function of neuronal, glial, and other excitable cells, as well as the development of both the central and the peripheral nervous systems, inclusive of the visual system and other excitable cells. Excitable cells, in addition to neural cells, include endocrine and neuroendocrine cells, pancreatic beta-cells, chromaffin cells, muscle cells, neuromuscular junctions, etc. Areas of interest include the functional characteristics of ion channels, the mechanisms by which extra- and intracellular signals are transduced and the functional characteristics of the transducers themselves, general mechanisms underlying the process of cell death, analyses of neural cell lineage, factors that specify or influence neuronal migration pathways or axonal pathfinding, processes that involve the maturation of neurons and glia, the formation of patterns and boundaries that lead to the development of adult brain regions and nuclei, and other aspects of the basic cellular and molecular physiology of neurons and glia. Projects reviewed in the MDCN IRG may be relevant to disorders or injuries, but their emphasis lies less in gaining an understanding of the disorder or its manifestations than on revealing the basic biological processes that underlie or may be altered in disorder. In 2003, MDCN study sections held 72 meetings and reviewed 1,986 applications. 761 reviewers served on MDCN review panels. (See Table 18.)

### **IRG Staff:**

#### **Dr. Carole Jelsema**

#### **Chief**

Dr. Lawrence Baizer #	Scientific Review Administrator
Dr. Carl Banner	Scientific Review Administrator
Dr. Mary Custer	Scientific Review Administrator
Manuel Dunbar	Grants Technical Assistant
Dr. Gillian Einstein *	Scientific Review Administrator
Ramona Erazo	Grants Technical Assistant
Dr. Joanne Fujii	Scientific Review Administrator
Dr. Peter Guthrie	Scientific Review Administrator
Pamela Holbrook #*	Science Writer
Dr. Syed Husain	Scientific Review Administrator
Yvonne Kubi	Grants Technical Assistant
Dr. Michael Lang	Scientific Review Administrator
Dr. Yingying Li-Smerin #	Scientific Review Administrator, CSR Intern Program
Dr. Peter Lyster *	Scientific Review Administrator
Carolyn Nicholas	Grants Technical Assistant

Dr. Michael Nunn *	Scientific Review Administrator
Dawn Smith	Grants Technical Assistant
Tyrone Smith	Grants Technical Assistant
Diane Swearinger	Grants Technical Assistant
Deborah Welty	Lead Grants Technical Assistant

\* Left CSR in fiscal year 2003  
 # Joined CSR in fiscal year 2003

**Table 18.** Applications reviewed by MDCN by activity code and Council round

Mechanism	January 2003	May 2003	October 2003	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	413	451	492	1,356	68.3%
<b>Small Business (R41, R43, R44)</b>	39	36	30	105	5.3%
<b>R21</b>	14	35	42	91	4.6%
<b>Other Research Projects (R03, R13, R15, R33, R37)</b>	20	29	20	69	3.5%
<b>Fellowship Program (F30, F31, F32, F33)</b>	73	118	105	296	14.9%
<b>Research Career Programs (K01, K02, K08, K12, K25)</b>	8	11	12	31	1.6%
<b>Research Program Projects and Centers (P01, P20)</b>	12	25	1	38	1.9%
<b>Total</b>	<b>579</b>	<b>705</b>	<b>702</b>	<b>1,986</b>	<b>100.0%</b>

The Molecular, Cellular and Developmental Neuroscience IRG has the following study sections:

Synapses, Cytoskeleton, and Trafficking (SYN)

Scientific Review Administrator: Dr. Carl Banner

SYN (formerly MDCN-1) reviews applications on the basic cell biology of nerve, muscle and other excitable cells, including synaptic plasticity, protein and organelle trafficking, cell surface, and extracellular matrix molecules in cell recognition and function; and cytoskeletal functions across the life span. Emphasis is on fundamental mechanisms of excitable cell function, including those relevant to disease processes.

In 2003 SYN primarily reviewed applications for NIA (9.8%), NICHD (6.9%), NIMH (28.2%), and NINDS (46.0%). It also reviewed a small number of applications for NIAID, NIDA, NIDCD, NEI, and NIGMS.

Neurodegeneration and the Biology of Glia (NDBG)

Scientific Review Administrator: Dr. Gillian Einstein

NDBG (formerly MDCN-2) reviews applications on neurodegeneration and programmed cell death; mapping novel transcripts and functional analysis of cloned gene products involved in cell survival or death; aspects of oxidative metabolism; glial-neuronal interactions (Schwann cells, oligodendrocytes, astrocytes, microglia); mechanisms of glial differentiation, metabolism, and myelination; neuroimmune function across the life span. The roles of genetic factors, trophic molecules and extrinsic influences (including toxins, hormones, and addictive substances) in these processes, and aspects of disease, injury, repair and interventional strategies are considered.

In 2003 NDBG reviewed applications primarily for NIA (19.3%) and NINDS (68.5%), but also reviewed applications for NCCAM, NCI, NIDA, NIDCD, NDDK, NIBIB, NIEHS, NIGMS, NICHD, NHLBI, and NIMH.

#### Biophysics of Synapses, Channels and Transporters (BSCT)

Scientific Review Administrator: Dr. Michael Lang

BSCT (formerly MDCN-3) reviews applications on signal transduction in nerve, muscle, and other excitable cells, with the primary focus on the structure and function of the transducers themselves. This includes basic studies of subunit structure, molecular dynamics, gating and selectivity, and second-messenger cascades. General approaches may include molecular and structural biology, pharmacology, biophysics, electrophysiology, and protein chemistry, imaging and labeling techniques. Emphasis is on fundamental molecular mechanisms, including those relevant to disease processes.

In 2003 BSCT reviewed applications primarily for NIDA (6.5%), NIGMS (31.9%), NIMH (10.9%), and NINDS (41.3%). It also reviewed a small number of applications for NIA, NIAMS, NIDDK, NEI, and NHLBI.

#### Neurotransmitters, Receptors, and Calcium Signaling (NTRC)

Scientific Review Administrator: Dr. Peter Guthrie

NTRC (formerly MDCN-4) reviews studies on signal transduction pathways in neurons, muscles, and other excitable cells with particular emphasis on cellular regulation and physiology. This includes studies on calcium physiology, regulation of ionic gradients, ion pumps and molecular transporters, ion channels, and synthesis and regulation of transduction molecules. Studies may integrate molecular, cellular, electrophysiological, and imaging approaches to examine molecular regulation, transduction, biochemical changes, cellular physiology, and functional consequences. Emphasis is on fundamental cellular mechanisms, including those relevant to disease processes.

In 2003 NTRC reviewed applications primarily for NIDA (11.8%), NIGMS (5.6%), NIMH (19.7%), and NINDS (54.5%). It also reviewed a smaller number of applications for NIA, NIAID, NIAMS, NIDDK, NIBIB, NEI, and NHLBI.

### Molecular Neuropharmacology and Signaling (MNPS)

Scientific Review Administrator: Dr. Syed Husain

MNPS (formerly MDCN-5) reviews projects on neuronal and muscle signal transduction and neurotransmitters with a particular focus on neurochemical and pharmacological mechanisms. This includes studies of ligand interactions, neuromodulator interactions, neurotransmitter metabolism, and the development of therapeutic compounds. Emphasis is on fundamental cellular mechanisms, including those relevant to disease processes.

In 2003 MNPS primarily reviewed applications for NIDA (47.4%), NIMH (24.4%), and NINDS (20.2%), but also reviewed a small number of applications for NIAAA, NIA, NIDDK, NIGMS, and NICHD.

### Neurogenesis and Cell Fate (NCF)

Scientific Review Administrators: Dr. Lawrence Baizer, Dr. Michael Nunn

NCF (formerly MDCN-6) reviews applications concerned with the initial formation of cells, as well as cell specification, determination, and differentiation in the developing nervous system. Areas to be included are: regulation of the cell cycle; induction of neural tissue; brain region specification and patterning; stem cell and progenitor cell proliferation, migration, and phenotypic determination; development and regulation of circadian rhythms and oscillatory processes; and neuronal and glial differentiation. There is emphasis on fundamental mechanisms underlying these processes in normal development, and in responses to disease, injury, and extrinsic factors, including circadian events and prenatal exposure to drugs.

In 2003 NCR primarily reviewed applications for NIGMS (5.1%), NICHD (13.1%), NIMH (15.4%), and NINDS (52.8%). It also reviewed applications for NIAAA, NIA, NIAMS, NCI, NIDA, NICDC, NIDDK, NEI, and NHLBI.

### Neurodifferentiation, Plasticity, and Regeneration (NDPR)

Scientific Review Administrator: Dr. Joanne Fujii

NDPR (formerly MDCN-7) reviews applications focused on differentiation, plasticity, aging and regeneration of neuronal connectivity. This area includes

process outgrowth, axon guidance, selection of synaptic targets, dendrite differentiation, establishment of neural maps, and formation and elimination of synaptic connections. Emphasis is on fundamental mechanisms underlying these processes in normal development and aging, and in response to disease, injury, and extrinsic factors, including prenatal exposure to drugs. The study section also reviews studies of the reestablishment of connectivity in aging, disease, and following injury, but with a focus on the analysis of cellular and molecular mechanisms that stimulate, inhibit, or otherwise perturb process growth and synapse formation.

In 2003 NDPR primarily reviewed applications for NEI (7.7%), NICHD (8.3%), NIMH (13.8%), and NINDS (60.8%). It also reviewed smaller numbers of applications for NIA, NIDA, NIDCD, NIGMS, and NHLBI.

#### Neuroinformatics/Neuroengineering (MDCN-C, MDCN-G)

Scientific Review Administrators: Dr. Mary Custer, Dr. Peter Guthrie

The MDCN-C and MDCN-G (formerly SSS-E) Special Emphasis Panels review neurotechnology, neuroinformatics and bioengineering applications within the areas covered by MDCN's chartered study sections.

#### Small Business Activities

Small business applications within the areas covered by the MDCN IRG are reviewed. The main focus is on the molecular and cellular level. In general, the projects involve development of devices, reagents, and software to probe channels, signal transduction, and the transducers themselves. Studies may involve basic biological processes that underlie or may be altered by disease processes.

Examples of devices might include development of imaging and recording techniques; analytical and system controlling software; monitoring and assay platforms; neuroprosthetic devices; biosensors; and stem cells and cell culture systems. Projects might also focus on drug discovery and development; molecular manipulation and engineering; development of specific research reagents and assays; therapeutics; and proteins that interact with and modulate receptors, transporters and transducers.

#### Fellowships (F03A, F03B)

Scientific Review Administrators: Dr. Carole Jelsema, Dr. Mary Custer, Dr. Yingying Li-Smerin

The F03A study section reviews fellowship applications on the basic cellular and molecular biology of neuronal, glial, retinal and other excitable cells (including

chromaffin cells, neuroendocrine cells and muscle cells); the fundamental mechanisms of neuronal cell function, including those relevant to disease processes; the general mechanisms underlying cell death; the mechanisms underlying the initial formation of, as well as cell specialization and differentiation in the developing nervous system; the mechanisms underlying oscillatory events; and the mechanisms that specify or influence migratory events and the development, aging, and regeneration of neuronal connectivity.

F03B's areas of interest include the basic cellular and molecular physiology of neurons, glial, retinal, and other excitable cells (including chromaffin cells, neuroendocrine cells and muscle cells); the structural and functional characteristics of ion channels and transporters; the mechanisms by which extra- and intracellular signals are transduced; the structure and function of the transducers themselves; cellular regulation/physiology; neurochemical and pharmacological mechanisms; and the development of therapeutic compounds.

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## **Division of Physiology and Pathology**

The Division of Physiology and Pathology (DPP) is responsible for the merit review of a wide range of science. A hallmark of the Division is the focus on the integrative biology of organs and tissues, including normal growth, development, structure, and function as well as translational and clinical studies of disease states and their treatment. Investigators may employ a broad range of basic and clinical research methods including pharmacologic, chemical and biochemical approaches, genetics, genomics and proteomics, molecular and cell biology techniques and animal models.

At the close of fiscal year 2003 DPP consisted of six Integrated Review Groups (IRGs). These are: 1) Cardiovascular Sciences (CVS); 2) Hematology (HEME); 3) Integrative, Functional, and Cognitive Neuroscience (IFCN); 4) Musculoskeletal Oral and Skin Sciences (MOSS); 5) Pathophysiological Sciences (PPS); and 6) Renal and Urological Sciences (RUS). In 2003, DPP study sections held a total of 365 meetings and reviewed 8,790 applications.

### **Changes in the Division in 2003**

At the beginning of 2003 DPP consisted of six IRGs: CVS; Musculoskeletal and Dental Sciences (MSD); PPS; IFCN; Nutritional and Metabolic Sciences (NMS); and Endocrinology and Reproductive Sciences (ENR). In the fall of 2002, CSR completed its reorganization of its divisional structure and successfully recruited a new Division Director. As a result, the NMS and ENR IRGs were transferred to DBBD early in the year.

New IRGs and study sections created by the process defined by the Panel on Scientific Boundaries of Review also began a phased implementation in 2003. The first new IRG was HEME, which met for the first time in June 2003. Applications assigned to this new IRG were largely derived from the Cardiovascular Sciences IRG, thus effectively creating two new IRGs where there had been one. By the end of September 2003, the MOSS and RUS IRGs had been created and MSD was disbanded. PPS and IFCN remained intact.

### **Anticipated changes in 2004**

Early in fiscal year 2004 the Digestive Sciences (DIG) and Respiratory Sciences (RES) IRGs will begin operations and PPS will be terminated. IFCN was organized in 1998 and will not undergo any restructuring in the near future.

### **IRG Chief and Review Staff Personnel Changes in Fiscal Year 2003**

Dr. Joy Gibson, formerly Chief of the old CVS IRG was appointed Chief of the reorganized CVS IRG and the HEME IRG. Dr. Dan McDonald, formerly chief of MSD, is now the Chief of the MOSS and RUS IRGs. The following SRAs left DPP in fiscal year 2003: Jerry Fried, Gordon Johnson, Paul Wagner, and Nancy Shinowara. DPP recruited

five new SRAs in 2003, including: Maribeth Champoux (shared with DCPS), Jeff DeClue, Rajiv Kumar, Michael Steinmetz, and Delia Tang.

**Division Staff:**

**Dr. Michael Martin**

**Director**

Janet Bens  
 Karen Bowers #  
 Lisa Klingensmith  
 Linda Thee

Office Automation Clerk  
 Technical Writer and Editor  
 Admin Review Assistant  
 Review Technology Assistant

# *Joined CSR in fiscal year 2003*

**Cardiovascular Sciences Integrated Review Group**

The Cardiovascular Sciences (CVS) IRG reviews applications involving basic and clinical studies of the heart, blood, vascular system and kidney in normal and diseased states. Pharmacological aspects of drug metabolism, drug transport and drug and non-viral gene delivery are also included. Specific areas include the genetic basis of disease, gene therapy, heart function and development, excitation-contraction coupling, hypertension, circulation, neural control of blood vessels and cardiac function, the development, pathologies and gene therapy of the vascular and renal systems, atherosclerosis, blood formation, homeostasis, thrombosis, stem cell transplantation and gene therapy of the hematopoietic system, cardiovascular pharmacology, signal transduction and ion channels. In 2003, CVS study sections held 72 meetings and reviewed 1,992 applications. 653 reviewers served on CVS review panels. (See Table 19.)

**IRG Staff:**

**Dr. Joy Gibson**

**Chief**

Patricia Barbee  
 Dr. Anshumali Chaudhari  
 Luis Cordeiro #  
 Dr. Russell Dowell  
 James Ferguson  
 Dr. Jerrold Fried \*  
 Dr. Chhanda Ganguly  
 Dr. Gordon Johnson \*  
 Nicole Kabia \*  
 Chadrick Kelly #  
 Dr. Rajiv Kumar #  
 Julie Nguyen #  
 Stacey Noble  
 Dr. Larry Pinkus  
 Dr. Robert Su

Grants Review Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Scientific Review Administrator  
 Scientific Review Administrator  
 Scientific Review Administrator

Grants Technical Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Lead Grants Technical Assistant  
 Scientific Review Administrator  
 Scientific Review Administrator

\* *Left CSR in fiscal year 2003*

# *Joined CSR in fiscal year 2003*

**Table 19.** Applications reviewed by CVS by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	551	634	523	1708	85.7%
<b>Small Business (R41, R42, R43, R44)</b>	60	79		139	7.0%
<b>R21</b>	14	22	24	60	3.0%
<b>Other Research Projects (R03, R13, R15, R24, R37)</b>					
	12	25	14	51	2.6%
<b>Research Career Programs (K24, K25)</b>					
		1	1	2	0.1%
<b>Miscellaneous Mechanisms (S10, U01)</b>					
	31	1		32	1.6%
<b>Total</b>	<b>668</b>	<b>762</b>	<b>562</b>	<b>1992</b>	<b>100.0%</b>

In fiscal year 2003, the Cardiovascular Sciences IRG had the following study sections:

#### Cardiovascular (CVA)

Scientific Review Administrator: Dr. Gordon Johnson

CVA reviews applications on the basic and clinical aspects of heart function (mechanical and electrical) in normal and disease states. This includes the genetic basis of cardiac disease, gene therapy, changes in function associated with maturation and aging, and excitation-contraction coupling in skeletal and cardiac muscle. The research may involve experimental animals, human subjects, isolated hearts (in situ and in vitro), isolated tissue, cell culture and/or myofilaments. Functional assessment may be via physiological, biophysical, biochemical, bioengineering, modeling, histological, pathological, radiological, magnetic resonance, and/or ultrasound techniques.

In 2003 CVA primarily reviewed applications for NHLBI (93.7%), but also reviewed a small number of applications for NIA, NIAID, NIAMS, NCI, NIDA, NIDDK, NIEHS, NIGMS, and NCRR.

#### Cardiovascular and Renal (CVB)

Scientific Review Administrator: Dr. Russell Dowell

CVB reviews applications that deal with basic and clinical aspects of cardiovascular function in normal and potentially pathogenic processes including hypertension, diabetes, and aging. It includes studies that pertain to renal hemodynamics and function as related to hypertension, including signaling processes, endogenous vasoactive substances, and their mechanism of action.

In 2003 CVB reviewed applications for NHLBI (80.5%), NIDDK (9.4%), and NIA (5.2%). It also reviewed applications for NIAMS, NCCAM, NIDA, NIGMS, and NINDS.

### Experimental Cardiovascular Sciences (ECS)

Scientific Review Administrator: Dr. Anshumali Chaudhari

ECS reviews applications focused on the basic and clinical aspects of the circulation and blood vessels in normal and diseased states, as well as the neural control of blood vessel and heart function. Also reviewed by ECS are: applications aimed toward an understanding of the molecular mechanisms underlying the vascular smooth muscle and endothelial cell function; some aspects of pathophysiology of hypertension and of atherosclerosis; and basic molecular mechanisms underlying normal angiogenesis and vasculogenesis.

In 2003 ECS reviewed applications primarily for NHLBI (87.7%), but also reviewed small numbers of applications for NIA, NIAMS, NCI, NIDA, NIDDK, and NINDS.

### Hematology 1 (HEM-1)

Scientific Review Administrator: Dr. Robert Su

This study section held its last meetings in February 2003.

In 2003, HEM-1 reviewed applications primarily for NCI (10.7%), NIDDK (19.8%), and NHLBI (63.6%). It also reviewed applications for NIAID, NIAMS, and NIGMS.

### Hematology 2 (HEM-2)

Scientific Review Administrator: Dr. Jerrold Fried

This study section held its last meetings in February 2003.

In 2003 HEM-2 primarily reviewed applications for NCI (8.2%), NIDDK (21.3%), and NHLBI (65.6%). It also reviewed a small number of applications for NIA, NIAID, and NIGMS.

### Pathology A (PTHA)

Scientific Review Administrator: Dr. Larry Pinkus

PTHA reviews applications in: the cell biology, development, and pathology of the non-pulmonary vasculature; nephrogenesis; and renal immunopathology and renal failure.

In 2003 PTHA reviewed applications primarily for NIDDK (23.1%) and NHLBI (64.0%). It reviewed smaller numbers of applications for NIA, NIAID, NIAMS, NCI, NIDA, and NIGMS.

### Pharmacology (PHRA)

Scientific Review Administrator: Dr. Joyce Gibson

PHRA reviews applications in the area of Cardiovascular pharmacology, drug metabolism, and drug delivery.

In 2003, PHRA primarily reviewed applications for NIGMS (44.1%), NHLBI (31.7%), NCI (5.4%), and NIDDK (6.5%). It also reviewed applications for NIA, NIAID, NIAMS, NCCAM, NIDA, NIBIB, NICHD, and NINDS.

### Clinical Cardiovascular Sciences (CCVS)

Scientific Review Administrator: Dr. Russell Dowell

The CCVS Special Emphasis Panel covers patient-oriented research in all of the scientific fields covered by the CVS IRG. Patient-oriented research is defined as research conducted with human subjects (or on material of human origin such as tissues, specimens and cognitive phenomena) involving direct interactions with human subjects.

In 2003 CCVS reviewed applications primarily for NHLBI (71.7%), NIA (6.9%), and NIDDK (11.0%), and also reviewed a small number of applications for NIAID, NCCAM, NIDA, NICHD, NINR, and NCRR.

### Small Business Activities

The Cardiovascular CVS Small Business SEP considers small business research applications that focus primarily on heart and circulatory system diagnostics, devices and therapies. Investigators may employ a range of approaches that include genetics, genomics and proteomics, molecular, cell, and computational biology, biochemistry, biophysics and bioengineering, imaging, analyses of model organisms, and human studies.

### **Hematology Integrated Review Group**

The Hematology (HEME) IRG considers research applications ranging from basic research through clinical studies focused on hematopoiesis, blood cells and their diseases and studies of normal and pathologic hemostasis and thrombosis. Specific areas include hemoglobinopathies, thalassemias, iron and heme metabolism, red cell and granulocyte/monocyte biology, transfusion medicine, disorders and parasite infections that involve blood elements, basic and applied aspects of normal and abnormal hematopoiesis,

leukemias and leukomogenesis, hematopoietic stem cell transplantation, hematopoietic cell gene therapy, mechanisms of hemostasis, mechanisms of thrombolysis/fibronolysis, platelete biology and thrombosis. Evaluation of large population based studies and clinical trials of hematologic disorders will be considered in a separate IRG. HEME was new in fiscal year 2003 and held its first meetings in June. Its study sections held 11 meetings and reviewed 272 applications. 140 reviewers served on HEME review panels. (See Table 20.)

**IRG Staff:**

**Dr. Joy Gibson**

**Chief**

Barbara Dickson-Carter  
 Dr. Jerrold Fried \*  
 Dr. Chhanda Ganguly  
 Dr. Robert Su  
 Dr. Delia Tang #

Grants Technical Assistant  
 Scientific Review Administrator  
 Scientific Review Administrator  
 Scientific Review Administrator  
 Scientific Review Administrator

\* Left CSR in fiscal year 2003  
 # Joined CSR in fiscal year 2003

**Table 20.** Applications reviewed by HEME by activity code and Council round

Mechanism	January 2003	May 2003	October 2003	Total	Percent
<b>Research Projects</b>					
<b>R01</b>			123	123	45.2%
<b>Small Business (R41, R43, R44)</b>			85	85	31.3%
<b>R21</b>			10	10	3.7%
<b>Other Research Projects (R03, R13, R15)</b>			4	4	1.5%
<b>Miscellaneous Mechanisms (S10)</b>			50	50	18.4%
<b>Total</b>			272	272	100.0%

The Hematology IRG contains the following study sections:

Erythrocyte and Leukocyte Biology (ELB)

Scientific Review Administrators: Dr. Jerrold Fried, Dr. Delia Tang

ELB reviews applications involving both basic and applied aspects of the blood system, with a focus on hemoglobinopathies, thalassemias; iron and heme metabolism; erythrocyte and granulocyte/monocyte biology, transfusion medicine, and disorders and parasitic infections that involve the formed blood elements.

In 2003 ELB reviewed applications for NHLBI (65.4%), NIAID (7.7%), NCI (7.7%) and NIDDK (19.2%).

Hematopoiesis (HP)

Scientific Review Administrator: Dr. Robert Su

HP reviews applications involving both basic and applied aspects of normal and abnormal hematopoiesis, including stem cell biology, hematopoietic growth factors and their receptors, leukemias and leukemogenesis, bone marrow failure syndromes, myeloproliferative syndromes, stem cell transplantation, and hematopoietic cell gene therapy.

In 2003 HP reviewed applications primarily for NCI (29.2%), NIDDK (33.3%), and NHLBI (29.2%). It also reviewed a small number of applications for NIA.

Hemostasis and Thrombosis (HT)

Scientific Review Administrator: Dr. Chhanda Ganguly

HT reviews applications involving basic and applied aspects of the blood and vascular elements associated with hemostasis, thrombosis, and interactions with vasculature. Studies using cellular, biochemical, biophysical, immunological, genetic, pharmacological and molecular biological approaches to define normal and pathological processes are reviewed.

In 2003 HT reviewed applications primarily for NHLBI (91.2%), but it also reviewed a small number of applications for NIAMS, NCI, NIDDK, and NIGMS.

Small Business Activities

The HEME Small Business SEP reviews small business applications ranging from basic research through clinical studies focused on red blood cells and their diseases including sickle cell anemia, storage of whole blood and its components, transfusion medicine, development of blood substitutes, stem cell culture, and stem cell therapy, hematopoiesis, studies of normal and pathologic hemostasis and thrombosis including hemophilia and gene therapy, anticoagulant therapy and development of hematological diagnostic devices and assays.

**Integrative, Functional and Cognitive Neuroscience Integrated Review Group**

The study sections comprising the Integrative, Functional, and Cognitive Neuroscience (IFCN) IRG review applications within a very wide range of neuroscience research aimed at furthering our understanding of how the nervous system is organized and functions at an integrative, systems level. Specific areas reviewed by IFCN include: studies of the neural basis of emotional and motivational behavior; regulation of function, at the systems level, by neuroendocrine and neuroimmune influences; the analysis of system function under varying behavioral states, such as sleep and hibernation; the basis of biological rhythms; the maintenance of homeostasis; chemosensation, hearing, balance, touch,

somatosensation, and visual perception; motor systems and sensorimotor integration; the integration of multisensory information; the development and alteration of memory and other cognitive processes that accompany aging; computational and theoretical models of cognitive processes; mechanisms underlying neural coding of complex stimuli (e.g., pattern recognition, spatial transformations, speech perception); and attention and its effects on information processing in the nervous system. In 2003, IFCN study sections held 120 meetings and reviewed 2001 applications. 775 reviewers served on IFCN review panels. (See Table 21.)

**IRG Staff:**

**Dr. Christine Melchior**

**Chief**

Terence Bibbs	Grants Technical Assistant
Dr. John Bishop	Scientific Review Administrator
Sandra Booth	Grants Technical Assistant
Dr. Maribeth Champoux	Scientific Review Administrator
Dr. Gamil Debbas	Scientific Review Administrator
Dr. Bernard Driscoll	Scientific Review Administrator
Yvette Jones	Grants Technical Assistant
Dr. Daniel R. Kenshalo	Scientific Review Administrator
Dr. Joseph Kimm	Scientific Review Administrator
Joel Kirkpatrick	Grants Technical Assistant
Dr. Paek-Gyu Lee #	Scientific Review Administrator, CSR Intern Program
Dr. Richard Marcus	Scientific Review Administrator
Ruthann McAndrew	Grants Technical Assistant
Denise McGarrell	Lead Grants Technical Assistant
Janet Mfon #	Grants Technical Assistant
Vivian Nauser	Lead Grants Technical Assistant
Dr. Michael Steinmetz #	Scientific Review Administrator

# Joined CSR in fiscal year 2003

**Table 21.** Applications reviewed by IFCN by activity code and Council round

Mechanism	January 2003	May 2003	October 2003	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	457	524	504	1485	74.2%
<b>Small Business (R41, R42, R43, R44)</b>	20	30	42	92	4.6%
<b>R21</b>	20	27	24	71	3.5%
<b>Other Research Projects (R03, R13, R15, R37, R55)</b>	23	30	41	94	4.7%
<b>Fellowship Program (F30, F31, F32)</b>	61	97	86	244	12.2%
<b>Research Career Programs (K01, K02, K08, K25)</b>	6	6	3	15	0.7%
<b>Total</b>	587	714	700	2001	100.0%

The Integrative, Functional and Cognitive Neuroscience IRG has the following study sections:

#### Neurotoxicology and Alcohol (NAL)

Scientific Review Administrator: Dr. Christine Melchior

NAL (formerly ALTX-3) addresses the effects of toxicants and alcohol on the central nervous system. Parameters that may be studied include behavior, behavioral genetics, neuropathology, neurophysiology, neuropharmacology, neuroendocrinology, neuroimmunology, neuromuscular toxicology, and neuroteratology.

In 2003 NAL primarily reviewed applications for NIAAA (68.9%) and NIEHS (26.2%), but also reviewed small numbers of applications for NIA, NCCAM, NIDA, NIGMS, NICHD, NIMH, and NINDS.

#### Neurobiology of Motivated Behavior (NMB)

Scientific Review Administrator: Dr. Gamil Debbas

NMB (formerly IFCN-1) reviews applications on the neural basis of behavior, such as motivation and emotion. Studies include the molecular, cellular, anatomical, genetic and neurobehavioral bases of motivated and emotional behavior. Emphasis is on the neurobiologic processes (genetic, molecular, developmental, maturation and aging) underlying neuronal circuits critical to the mediation of positively and negatively motivated behavior.

In 2003 NMB reviewed applications primarily for NIDA (61.3%) and NIMH (27.7%). It also reviewed smaller numbers of applications for NIAAA, NIA, NIDCD, NIDDK, NICHD, NHLBI, and NINDS.

#### Neuroendocrinology, Neuroimmunology, and Behavior (NNB)

Scientific Review Administrator: Dr. Richard Marcus

NNB (formerly IFCN-2) is concerned with the neurobiological basis of behavior across the life span, with a focus on neuroendocrine, neuropeptide, and neuroimmune systems. NNB primarily considers research with non-human animals (vertebrates and invertebrates), but relevant work with humans is also included. Both normal and disordered processes are addressed. Major areas of interest include sexual behavior, including courtship, pair bonding, and parental behavior; ingestive behaviors; drugs of abuse; stress; and interactions of the brain with immune systems. Studies typically use behavioral, physiological, pharmacological, anatomical, and developmental approaches, but may also include molecular, cellular, or genetic approaches.

In 2003 NNB reviewed applications primarily for NIDA (10.9%), NIDDK (11.6%), NICHD (9.5%), NIMH (42.2%), and NINDS (17.7%). It reviewed smaller numbers of applications for NIA, NIAID, NIGMS, and NHLBI.

### Biological Rhythms and Sleep (BRS)

Scientific Review Administrator: Dr. Richard Marcus

BRS (formerly IFCN-3) reviews applications in a number of areas of integrative, regulatory and behavioral neuroscience across the life span relating primarily to sleep, biological rhythms, and certain homeostatic processes. BRS primarily considers research with non-human animals (vertebrates and invertebrates), but relevant work with humans is also included. Areas of interest include behavioral states, such as wakefulness, sleep, hibernation and variations in arousal level; biological rhythms, including temporal cycles such as ultradian, circadian, infradian and circannual rhythms; and regulatory mechanisms underlying homeostasis, including thermoregulation and other functions of the autonomic nervous system. Applications on the relationship of drug administration, use, and withdrawal on homeostasis are reviewed here. Levels of analysis include genetic/molecular studies, cellular and circuit studies, neurobehavioral and neuropharmacological investigations, and behavioral studies of the whole organism. Emphasis is on integrative studies of mechanisms, functions, or neurobehavioral manifestations in whole organisms, but may include studies of other preparations (slices, explants, cell cultures, single cells, etc.).

In 2003 BRS primarily reviewed applications for NHLBI (11.5%), NIMH (45.9%), and NINDS (34.4%). It also reviewed applications for NCI, NIDA, NIGMS, and NICHD.

### Somatosensory and Chemosensory Systems (SCS)

Scientific Review Administrator: Dr. Daniel Kenshalo

SCS (formerly IFCN-4) reviews research on the anatomy, physiology and psychophysics of chemosensory, pain, analgesia and somatosensory systems. In addition, drug mechanisms and effects are reviewed as they pertain to pain and analgesia. The emphasis is on integrative systems approaches to understanding normal sensory function; dysfunction; development, maturation and aging; recovery from injury; perceptual and sensory perturbations.

In 2003 SCS reviewed applications primarily for NIDA (13.2%), NIDCD (31.2%), NIDCR (5.3%), and NINDS (37.6%). It also reviewed a smaller number of applications for NIA, NIAMS, NCCAM, NCI, NIDDK, NIEHS, NEI, NICHD, NHLBI, NIMH, and NINR.

Sensorimotor Integration (SMI)

Scientific Review Administrator: Dr. John Bishop

SMI (formerly IFCN-5) reviews applications concerned with the structure and function of motor, sensorimotor and vestibular systems. Emphasis is on integrative systems approaches to understanding neural substrates of sensorimotor integration, motor function and balance, as well as the effects of pathophysiological insults on the operation of these systems and recovery from such insults.

In 2003 SMI reviewed applications primarily for NIA (5.2%), NIDCD (16.3%), NIMH (13.7%), and NINDS (54.9%). It also reviewed a small number of applications for NIDCR, NEI, and NICHD.

Auditory System (AUD)

Scientific Review Administrator: Dr. Joseph Kimm

AUD (formerly IFCN-6) reviews applications on the structure and function of the auditory and vestibular systems. Emphasis is on integrative systems approaches to understanding hearing, vestibular end organ physiology, and developmental and maturational aspects of these two systems. Issues of aging, dysfunction and recovery from injury also are addressed.

In 2003 AUD primarily reviewed applications for NIDCD (90.0%), but it also reviewed a small number of applications for NIA, NIDA, NIMH, NINDS, and NCRR.

Neurobiology of Learning and Memory (LAM)

Scientific Review Administrator: Dr. Bernard Driscoll

LAM (formerly IFCN-7) Section reviews applications on the neurobiological structures, mechanisms, and principles underlying specific aspects of learning, memory, and associated neural plasticity. The scope of this committee is broad, including studies of the molecular and cellular changes, functional circuitry, and neural coding and integration that underlie learning and memory processes, as well as their disorders. Particular emphasis is placed on studies that directly relate behavioral/cognitive processes to their neural substrates.

In 2003 LAM reviewed applications primarily for NIA (11.5%), NIDA (6.4%), NIMH (57.1%), and NINDS (21.8%). It reviewed smaller numbers of applications for NIDCD, NEI, NICHD, and NCRR.

Cognitive Neuroscience (COG)

Scientific Review Administrator: Dr. Bernard Driscoll

COG (formerly IFCN-8) reviews a broad range of applications on the neurobiological mechanisms and principles underlying cognitive functions other than learning and memory. The scope of the committee is broad, including molecular and cellular mechanisms, functional circuitry, and neural coding and integration that underlie behavioral/cognitive processes as well as their disorders. Particular emphasis is placed on studies that directly relate behavioral/cognitive processes to their neural substrates.

In 2003 COG primarily reviewed applications for NEI (11.2%), NIMH (48.0%), and NINDS (33.7%). It also reviewed applications for NIA, NIDCD, NIBIB, and NICHD.

Central Visual Processing (CVP)

Scientific Review Administrators: Dr. Christine Melchior, Dr. Michael Steinmetz

CVP (formerly VISB) reviews basic, applied, and clinical research on the development, aging, structure, function, and disorders of those portions of the brain, eye, and extraocular muscle system that serve visual sensation of brightness, color, space/form, motion, depth, as well as accommodation, pupil contraction, and eye movements.

In 2003 CVP reviewed applications primarily for NEI (96.0%), but also reviewed a small number of applications for NIA, NIMH, NINDS, and NCRR.

Small Business Activities

Scientific Review Administrators: Dr. Joseph Kimm, Dr. Bernard Driscoll

Small business applications are reviewed in one of two special emphasis panels within the IFCN IRG. ZRG1 AUD (10) B reviews applications dealing with the auditory system and hearing, including enhancing the hearing of hearing impaired individuals; evaluating devices to improve the quality of life and safety of individuals who are hearing impaired; and diagnostic audiometry. ZRG1 LAM (10) B reviews applications in a broad area of neuroscience reflective of sensory processes (other than hearing and vision) and motor control and limbic system processes, including: development of electrophysiological recording devices, other than EEG machines, for use in neuroscience related data collection; and development of medications for pain.

Fellowships (F02A, F02B)

Scientific Review Administrators: Dr. John Bishop, Dr. Gamil Debbas, Dr. Maribeth Champoux

The F02A study section reviews fellowship applications generally concerned with functions of the limbic system and aimed at furthering our understanding of how the nervous system is organized and functions at an integrative, systems level. Areas reviewed include: studies of the neural basis of emotional and motivational behavior; learning and memory; regulation of neural function, at the systems level, by neuroendocrine and neuroimmune influences; the analysis of system function under varying behavioral states, such as sleep and hibernation; the basis of biological rhythms; the maintenance of homeostasis; neurotoxicology.

The F02B study section reviews fellowship applications in sensory, motor, and cognitive neuroscience research aimed at furthering our understanding of how the nervous system is organized and functions at an integrative, systems level. The emphasis is on understanding normal sensory, motor or sensorimotor function, dysfunction, development, maturation and aging, recovery from injury, and perceptual and sensory perturbations. This study section also reviews fellowship applications on the integration of multisensory information, mechanisms underlying neural coding of complex stimuli and attention and effects on information processing in the nervous system.

**Musculoskeletal and Dental Sciences Integrated Review Group**

The Musculoskeletal & Dental Sciences (MSD) IRG reviewed basic aspects of musculoskeletal (bone, teeth, cartilage, tendon, ligament, skin) tissue, cell and molecular biology, molecular genetics, biomechanics, bio- and tissue-engineering, physiology and pathology; selective aspects of geriatrics, including skeletal and muscular problems of aging; rehabilitative and geriatric therapeutic interventions; motor control; prosthetic devices; water and electrolyte balance; mineral metabolism; renal, and urinary and urogenital tract physiology and function; comparable clinical aspects of orthopaedics, endocrinology and mineral metabolism, dentistry, gerontology, chiropractic, osteopathy, rheumatology, dermatology, nephrology and urology, in normal and disease states; causes, manifestations and treatments of the Chronic Fatigue Syndrome, the Fibromyalgia Syndrome and other chronic polysystemic morbidity syndromes. In 2003, MSD study sections held 81 meetings and reviewed 2,633 applications. 109 reviewers served on MSD review panels. (See Table 22.) Study sections in the MSD IRG held their last meetings in fiscal year 2003.

**IRG Staff:****Dr. Daniel McDonald****Chief**

Dr. Priscilla Chen

Scientific Review Administrator

Dr. Harold Davidson	Scientific Review Administrator
Dr. Jeffrey DeClue	Scientific Review Administrator
Jehan Deng *	Grants Technical Assistant
Suzette Epps	Lead Grants Technical Assistant
Jelani Evering #	Grants Technical Assistant
Crystal Graham	Grants Technical Assistant
Dr. Shirley Hilden	Scientific Review Administrator
Dr. J. Terrell Hoffeld	Scientific Review Administrator
Steve Lerman #	Grants Technical Assistant
Ronald Livingston	Grants Technical Assistant
Jo Pelham	Scientific Review Administrator
Kieu Pham	Grants Technical Assistant
William Reeves	Grants Technical Assistant
Dr. M. James Scherbenske	Scientific Review Administrator
Dr. Nancy Shinowara *	Scientific Review Administrator
Kristeena Sigler	Grants Technical Assistant
Dr. Jean D. Sipe	Scientific Review Administrator
Ann Turpin #	Grants Technical Assistant
Dr. Paul Wagner *	Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 22.** Applications reviewed by MSD by activity code and Council round

Mechanism	January 2003	May 2003	October 2003	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	505	543	763	1,811	68.8%
<b>Small Business (R41, R42, R43, R44)</b>	130	146	157	433	16.4%
<b>R21</b>	58	59	240	357	13.6%
<b>Other Research Projects (R03, R15, R55)</b>	12	7	12	31	1.2%
<b>Miscellaneous Mechanisms (S10)</b>			1	1	0.0%
<b>Total</b>	705	755	1173	2,633	100.0%

The Musculoskeletal and Dental Sciences IRG included the following study sections:

General Medicine A 1 (GMA-1)

Scientific Review Administrator: Dr. Harold Davidson

GMA-1 embraces various basic biologic and clinical disease aspects within the purview of the medical specialties of dermatology, rheumatology and internal medicine. GMA-1 held its last meetings in June and July of 2003.

In 2003 GMA-1 primarily reviewed applications for NIAID (11.2%), and NIAMS (70.8%). It also reviewed applications for NIA, NCCAM, NCI, NIDCR, NIDDK, NIBIB, NIGMS, NICHD, NHLBI, and NINR.

#### General Medicine B (GMB)

Scientific Review Administrator: Dr. Shirley Hilden

GMB evaluates applications pertaining to water and electrolyte balance, mineral metabolism and endocrinology (pertaining to the kidney and bone) and kidney function, including proposals with an emphasis on causative mechanisms and therapy of renal disease, exclusive of cardiovascular involvement.

In 2003 GMB primarily reviewed applications for NIDDK (93.9%), but also reviewed small numbers of applications for NIA, NCCM, NIGMS, NICHD, NHLBI, and NINDS.

#### Geriatrics and Rehabilitation Medicine (GRM)

Scientific Review Administrator: Dr. Jo Pelham

GRM evaluates applications pertaining to the physiology and therapeutics of impaired physical functioning; exercise and physical manipulation as prevention and rehabilitation strategies; studies on failure-to-thrive and patient-oriented research and interventions in these areas; clinically-oriented/translational studies related to cardiovascular, endocrine and nutritional pathophysiologic aging changes and disorders.

In 2003 GRM reviewed applications primarily for NIA (44.2%), NIAMS (22.1%) and NICHD (22.1%). It also reviewed a small number of applications for NCCAM, NIDDK, NHLBI, NINR, and NINDS.

#### Oral Biology and Medicine 1 (OBM-1)

Scientific Review Administrator: Dr. J. Terrell Hoffeld

OBM-1 reviews various aspects of clinical dental science and oral biology (exclusive of randomized clinical trials), including: the chemistry and biochemistry of saliva; dental materials; oral microbiology and immunology; oral pathology; and cell and molecular biology of salivary gland, gingival, and oral mucosal tissues.

In 2003 OBM-1 primarily reviewed applications for NIDCR (92.8%) but also reviewed small numbers of applications for NIAID, NIAMS, NCI, NIGMS, and NHLBI.

### Oral Biology and Medicine 2 (OBM-2)

Scientific Review Administrator: Dr. Priscilla Chen

OBM-2 evaluates craniofacial developmental biology; the cell biology of mineralized tissues; the biochemistry and physical chemistry of mineralization; oral surgery and implants; muscle and joint pathology (especially with respect to TMJ); and biomimetics and tissue engineering.

In 2003 OBM-2 reviewed applications primarily for NIAMS (38.9%), NIDCR (40.4%), and NIDDK (11.5%). It also reviewed applications for NIA, NIAID, NCI, NIDA, NIGMS, NICHD, and NHLBI.

### Orthopedics and Skeletal Muscle (ORTH)

Scientific Review Administrator: Dr. Daniel McDonald

ORTH evaluates basic and applied applications pertaining to most elements of the musculoskeletal system (particularly bone, cartilage, tendon, ligament), in terms of genetic, molecular, cellular, physiological and bioengineering principles; as well as most aspects of clinical orthopedic research.

In 2003 ORTH reviewed applications primarily for NIAMS (75.8%), NIA (5.2%), and NIDDK (11.9%). It also reviewed smaller numbers of applications for NCCAM, NCI, NIDCR, and NICHD.

### Skeletal Muscle Biology (SMB)

Scientific Review Administrator: Dr. Paul Wagner

SMB reviews applications on cellular, molecular, biochemical, and physiological investigations of skeletal muscle biology and muscle diseases, including the muscular dystrophies, that range from molecular genetics, to structure-function relationships, to integrative and functional studies on human mobility and health. Integrative studies include development and aging as well as gender and ethnicity difference in muscle function.

In 2003 SMB primarily reviewed applications for NIAMS (60.1%), NIA (6.8%), NIDDK (10.1%), NHLBI (9.5%), and NINDS (7.4%). It also reviewed applications for NIDCD, NIDCR, NIBIB, NEI, NICHD, and NINR.

### Chronic Fatigue Syndrome (CFS)

Scientific Review Administrator: Dr. J. Terrell Hoffeld

CFS reviews applications in the multiple disciplines applied to studies of the causes, manifestations and treatments of the Chronic Fatigue Syndrome, the Fibromyalgia Syndrome and other chronic polysystemic morbidity syndromes.

In 2003 CFS reviewed applications primarily for NIAID (37.1%), NIAMS (37.1%), NIMH (11.4%), and NINDS (5.7%). It also reviewed applications for NCCAM, NIDDK, and NHLBI.

### Urology (UROL)

Scientific Review Administrators: Dr. Shirley Hilden, Dr. James Scherbenske

UROL evaluates basic and clinical studies of the urinary and urogenital tracts, including aspects of genetics, embryology, development, function, and pathophysiology of the ureter, bladder (including smooth muscle function), prostate, urethra, penis, vas deferens, epididymis, and testis.

In 2003 UROL reviewed applications primarily for NIDDK (87.1%) and NIA (6.9%), but also reviewed small numbers of applications for NCCAM, NCI, NICHD, and NHLBI.

### Small Business Activities

The MSD IRG evaluates small business applications for most areas of science noted above, including the fields of orthopedics, rehabilitative medicine, oral biology and medicine, musculoskeletal tissue- and bio-engineering, dermatology, and nephrology and urology

## **Pathophysiology Sciences Integrated Review Group**

The Pathophysiological Sciences (PPS) IRG reviews grant applications for research on the effects of toxicants and alcohol (toxicology) gastrointestinal biology (basic and clinical) including clinical gastroenterology, hepatology, exocrine pancreatic physiology, lung biology (clinical and basic studies), and respiratory and applied physiology. Technology development-related applications in areas related to toxicology, gastroenterology, lung mechanics, respiration, etc. are also reviewed in this IRG. The Pathophysiology Sciences (PPS) IRG held its final meetings in Fiscal Year 2003. In 2003, PPS study sections held 56 meetings and reviewed 1,892 applications. 509 reviewers served on PPS review panels. (See Tables 23.)

### **IRG Staff:**

**Dr. Mushtaq Khan**

**Chief**

Maria Ayap	Grants Clerk
Dr. George Barnas	Scientific Review Administrator
Dr. Najma Begum #	Scientific Review Administrator
Latricia Dickson-Scott	Lead Grants Technical Assistant
Mary Dinh	Office Automation Clerk
Dr. Ghenima Dirami #	Scientific Review Administrator, CSR Intern Program
Jean Fugate	Grants Technical Assistant
Dr. Patricia Greenwel	Scientific Review Administrator
Raven Jaeger *	Grants Technical Assistant
Sanita Kacker	Grants Technical Assistant
Mary Leon Kalra	Grants Technical Assistant
Dr. Peter Perrin	Scientific Review Administrator
Hassan Rana #	Office Automation Clerk
Zeeshan Shafi *	Office Automation Clerk
Dr. Gopal Sharma	Scientific Review Administrator
Dr. Rass Shayiq	Scientific Review Administrator
Dr. Everett Sinnett	Scientific Review Administrator

\* Left CSR in fiscal year 2003

# Joined CSR in fiscal year 2003

**Table 23.** Applications reviewed by PPS by activity code and Council round

<b>Mechanism</b>	<b>January 2003</b>	<b>May 2003</b>	<b>October 2003</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	315	438	516	1,269	67.1%
<b>Small Business (R41, R42, R43, R44)</b>	59	56	82	197	10.4%
<b>R21</b>	11	24	93	128	6.8%
<b>Other Research Projects (R03, R13, R15, R24, R37)</b>	13	17	14	44	2.3%
<b>Fellowship Programs (F30, F31, F32, F33)</b>	61	113	78	252	13.3%
<b>Research Career Programs (K08)</b>			1	1	0.1%
<b>Research Program Projects and Centers (P01)</b>			1	1	0.1%
<b>Total</b>	459	648	785	1,892	100.0%

In fiscal year 2003 the Pathophysiology Sciences IRG had the following study sections:

Alcohol and Toxicology 1 (ALTX-1)

Scientific Review Administrator: Dr. Patricia Greenwel

ALTX-1 addresses the effects of toxicants and alcohol at the cellular and subcellular levels in a non-tissue/organ specific manner. Parameters that may be studied include DNA/chromosomal damage and its repair, epigenetic effects on the

control of gene expression, enzymology, metabolism, pharmacokinetics and chemistry, derangement of membrane/receptor and signaling function, transport processes, and cellular proliferation (including carcinogenesis) and/or differentiation.

In 2003 ALTX-1 primarily reviewed applications for NIAAA (7.7%), NIDDK (5.1%), NIEHS (61.0%), and NIGMS (7.7%). It reviewed smaller numbers of applications for NIA, NIAID, NIAMS, NCCAM, NCI, NIDA, NIDCR, NINDS, and NCRR.

#### Alcohol and Toxicology 4 (ALTX-4)

Scientific Review Administrator: Dr. Rass Shayiq

ALTX-4 addresses the effects of toxicants and alcohol on distinct organ systems (other than the central and peripheral nervous system) including the bone, cardiac, cardiovascular, endocrine/exocrine, gastrointestinal, hepatic, immune, renal, reproductive, pulmonary, and skeletal muscle systems.

In 2003 ALTX-4 reviewed applications primarily for NIAAA (27.0%), NIDDK (6.0%), NIEHS (46.5%), and NHLBI (8.0%). It also reviewed a small number of applications for NIA, NIAID, NCCAM, NCI, NIDA, and NIGMS.

#### General Medicine A 2 (GMA-2)

Scientific Review Administrator: Dr. Mushtaq Khan

GMA-2 reviews applications related to cell and molecular biology and physiology of the gastrointestinal (GI) tract including GI transport, immunology, microbiology and inflammation.

In 2003 GMA-2 reviewed applications primarily for NIDDK (72.2%), NIAID (5.1%), and NCI (14.4%). It reviewed smaller numbers of applications for NIAAA, NIA, NCCAM, NIDA, NIGMS, NICHD, NHBLI, NINDS, and NCRR.

#### General Medicine 3 (GMA-3)

Scientific Review Administrator: Dr. Najma Begum

GMA-3 reviews clinically-oriented and basic research related to gastrointestinal (GI) motility, hepatobiliary and pancreatic physiology and pathobiology.

In 2003 GMA-3 primarily reviewed applications for NIDDK (77.4%) and NCI (10.4%), but also reviewed a small number of applications for NIAAA, NIAID, NCCAM, NIBIB, NIEHS, NICHD, NHLBI, and NINDS.

### Lung Biology and Pathology (LBPA)

Scientific Review Administrators: Dr. George Barnas, Dr. Ghenima Dirami

LBPA reviews applications on the physiology, pathology, and immunology of the pulmonary system, with a focus on the airways, interstitium, immune system, and lung fluids, using cellular, biochemical, molecular biological, and immunological approaches to normal and pathological processes.

In 2003 LBPA reviewed applications primarily for NIAID (10.6%) and NHLBI (83.6%). It also reviewed applications for NIA, NIAMS, NIDDK, NIEHS, and NIGMS.

### Respiratory Physiology (RESP)

Scientific Review Administrator: Dr. Everett Sinnett

RESP reviews basic and clinical research related to certain aspects of the respiratory system with a focus on control of breathing, gas exchange, respiratory system mechanics, sleep physiology as it relates to control of breathing and upper airway physiology, and the pulmonary vascular system.

In 2003 RESP primarily reviewed applications for NHLBI (87.8%), but also reviewed small numbers of applications for NIA, NIAID, NIDA, NIDCD, NIEHS, NIGMS, NINR, and NINDS.

## Division of Management Services

The Division of Management Services (DMS) advises the CSR Director on administrative matters and plans and directs management functions of the Center, including administrative services, financial management, committee management, information technology services, procurement, management analysis, and preparation of reports and statistics related to Center activities. DMS is composed of four branches: 1) the Administrative Services Branch (ASB), which provides procurement, property, space management, security, telecommunications, mail, travel and reimbursement, and general office services; 2) the Financial Management Branch (FSB) which develops, prepares, and executes all operating budget material for CSR and serves as the principal advisory body within CSR for financial matters; 3) the Committee Management Branch (CMB) which provides committee management support to the CSR in all matters pertaining to the operation of Advisory Committees; and 4) the Technology Services Branch (TSB) which develops, implements and supports all aspects of all CSR systems on the Local Area Network (LAN), World-Wide-Web, and the NIH.

### Divisional Highlights in 2003

David Whitmer was appointed Executive Officer at the Center for Scientific Review. Mr. Whitmer holds a master's degree in public administration and political science from the University of South Florida. Before coming to CSR, he was chief of the NHLBI Management Policy and Administrative Services Branch. He formulated and implemented NHLBI's administrative policies and procedures, and coordinated the delivery of administrative support services. Mr. Whitmer leads the NIH Extramural Support Services MEO transition effort and CSR's A-76 program.

CSR staff prepared over 18,000 CSR reviewer reimbursement checks during 2003. In addition, over 5,000 checks were written to vendors, including the NIH Travel Management Center, hotels, teleconferencing providers, express mail service, and to cover shredding costs. Because of the efficiency of the CSR operation, 13 other NIH ICs have contracted with CSR to perform a check-writing service and in 2003 more than 15,000 checks were processed for these ICs.

The CSR Committee Management Office (CMO) is unique in the NIH CMO community because of the unusually large number of committees and subcommittees. The CSR CMO handles a Program Advisory Committee, a Special Emphasis Panel (SEP) and over 200 standing review subcommittees that together generate more than 1,500 meetings per year. Staffing comparisons to other IC Committee Management offices demonstrate that CSR benefits enormously from economies of scale.

### Changes in the Division in Fiscal Year 2003

**Consolidation of Scientific Review and Evaluation Award (SREA) in Administrative Services Branch:** The SREA Office now reports to the Chief, Administrative Services

Branch after previously being part of the Financial Management Office. This allows for a centralization of travel support with ASB.

**Human Resource Consolidation:** In 2001 DHHS and the Office of Management and Budget mandated that Human Resource (HR) activities at NIH be centralized, citing a need for department-wide consistency. As part of this effort, CSR's HR services are now provided by the NIH Office of Human Resources (OHR) and HR staff formerly assigned to CSR were assigned to OHR in October 2003.

**Service Agreement with NIH Central Services Budgeting and Accounting Branch (CSBAB):** CSR recently entered into a service agreement with CSBAB for budget and financial management services for 2004, allowing CSR to save 2 FTEs. Because CSBAB has established streamlined business practices in both budget and financial management processing, CSR will also realize beneficial economies of scale.

**Expected Changes in the Division in Fiscal Year 2004**

**Streamlined SREA Reimbursement:** Currently, CSR reimburses consultants using detailed travel vouchers accompanied by receipts. Auditing and paying these vouchers is time-consuming and labor-intensive. CSR is working with staff in the Office of Management Assessment to implement a flat rate approach at NIH, similar to that used by the National Science Foundation.

**Logistics A-76 Study:** NIH is continuing to comply with Office of Management and Budget (OMB) Circular A-76, also known as competitive sourcing, which is the process of obtaining commercial activities at the best price through open and fair competition. One study with an impact on ASB is materials management and logistics. A total of five ASB staff are impacted by this study. The study results will be announced in September 2004.

**Division Staff:**

<b>David Whitmer #</b>	<b>Director</b>
<b>Alice (Chris) Wisdom *</b>	<b>Director</b>

John Czajkowski *	Deputy Executive Officer
Janet Dudrick *	Special Assistant
Tanjanika Fishburne	Program Analyst
Mac Hadley	Workforce Plan Development Specialist
Terry Valladares	Project Manager

**Administrative Services Branch**

Georgina Baumgartner	Administrative Officer/Management Analyst
Mimi Bishop	Administrative Tech
Robert Buxton	Mail Clerk
Juanita Colon	Administrative Technician
Marilyn Cuzzolina	Administrative Officer
Keyvan Ebrahimi-Farokh	Administrative Technician
Edwin Echevoyen	Administrative Officer/SREA Officer

Sandra Franklin	Clerk
Chris Gregory	Supply Clerk
NaDel Griffith	Administrative Officer
Sean Hinson	Supply Clerk
Jeanne Macino	Administrative Officer
Thomas Robb	Support Services Supervisor
India Robinson #	Administrative Officer
Thao Tran	Administrative Technician
Andrew Wehrle	Supply Clerk

**Travel and Consultant Reimbursement Section**

Donna Brown	Accounting Technician
Beverly Copeland	Program Assistant
Paula Dinterman	Transportation Assistant
Eva Marmon-Halm	Accountant
Dawayne Nutt	Financial Analyst
Shadita Sweeney	Transportation Assistant
Yingtao Zhu	Accountant

**Committee Management Branch**

Gloria Duvall	Committee Management Assistant
Salita Kelley	Committee Management Assistant
Terri Myers	Office Automation Clerk
Karen (Poppy) Oden	Committee Management Assistant
Carol Scibek	Committee Management Officer
Janise Snow	Committee Management Assistant

**Financial Management Branch**

Angelica De Leon *	Budget Analyst
Leslie Donaldson	Budget Officer
Verlyn Francisco *	Budget Analyst

**Human Resources Branch<sup>13</sup>**

Carolyn ( Suzi ) Hugueley *	Human Resources Specialist
Debby Milans *	Human Resources Specialist
Carol Striker *	Human Resources Specialist
Nneka Ukpabi *	Human Resources Assistant

**Technology Services Branch**

Dr. Dipak Bhattacharyya	Web Developer
James Blagaich	IT Specialist
Chris DeWitt	Desktop Technician
Sanjay Dharanidhar	Web Developer
Eugene Diggs	IT Specialist
Charles Dumais	IT Specialist
Nancy Hafele	IT Specialist
Joyce Ingle	IT Specialist
Steve Johnson	Desktop Technician

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<sup>13</sup> The Human Resources Branch was consolidated with DHHS in October 2003

Jan Arthur Levy	IT Specialist
Richard McKay	Chief
Amish Naik # *	Computer Assistant
Melvin Olivo	Desktop Technician
Johnny Richardson	Desktop Technician
Eric Rickford	IT Technician
Alex Schultz	IT Specialist
Connie Shiau	Graphic Specialist
Yuliya Shifrin	Database Specialist
Matthew Stormer	Desktop Technician
Mark White	Telecommunications Specialist
Carlton Williams	IT Specialist
Leo Wu	Web Developer
Patricia Young	IT Specialist
Randy Yun	Desktop Technician

\* *Left CSR in fiscal year 2003*

# *Joined CSR in fiscal year 2003*

## CSR Advisory Committee Members

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Evan S. Deneris, PhD	Case Western Reserve University	MDCN
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Christopher T. Denny, MD	University of California, Los Angeles	ONC
Paul Dent, PhD	Virginia Commonwealth University	ONC
Sharon Roth Dent, PhD	University of Texas M.D. Anderson Cancer Center	CDF
Augustine J. D'Ercole, DVM, MD	University of North Carolina	ENR
Vojo Peter Deretic, PhD	University of New Mexico	AARR
Robert J. Deschenes, PhD	University of Iowa	IDM
Raymond J. Deshaies, PhD	California Institute of Technology	CDF
Gary V. Desir, MD	Yale University	MSD
Nancy L. Desmond, PhD	University of Virginia	IFCN
Ariel Y. Deutch, PhD	Vanderbilt University	MDCN
Sherin U. Devaskar, MD	University of California, Los Angeles	ENR
Leslie L. Devaud, PhD	Idaho State University	IFCN
David L. Dewitt, PhD	Michigan State University	BCS
Douglas S. Dewitt, PhD	University of Texas Medical Branch at Galveston	BDCN
Danny N. Dhanasekaran, PhD	Temple University	ONC
Clemente Diaz, MD, PhD	University of Puerto Rico Medical School	AARR
Elizabeth Schmidt Didier, PhD	Tulane Regional Primate Research Center	AARR
Harry C. Dietz, MD	Johns Hopkins University	GNS
Colleen K. Diiorio, PhD	Emory University	AARR
Mingzhou Ding, PhD	Florida Atlantic University	IFCN
Xinxin Ding, PhD	Wadsworth Center	PPS
Janet A. Dipietro, PhD	Johns Hopkins University	BBBBP
Luisa A. Dipietro, DDS, PhD	Loyola University Medical Center	MSD
Mary L. Disis, MD	University of Washington	ONC
James P. Dittami, PhD	Worcester Polytechnic Institute	BPC
William L. Ditto, PhD	University of Florida	IFCN
Henrik G. Dohlman, PhD	University of North Carolina, Chapel Hill	CVS
M. Eileen Dolan, PhD	University of Chicago	ONC

Robert M. Donahoe, PhD	Emory University	AARR
David F. Donnelly, PhD	Yale University	PPS
David M. Dooley, PhD	Montana State University, Bozeman	BPC
Gerald W. Dorn, MD	University of Cincinnati Medical Center	CVS
Barbara A. Doshier, PhD	University of California, Irvine	BBBP
Jennifer A. Doudna, PhD	University of California, Berkeley	BPC
Dennis A. Dougherty, PhD	California Institute of Technology	BPC
Allison J. Doupe, MD, PhD	University of California	IFCN
William Dowhan, PhD	University of Texas Health Science Center, Houston	BCS
Diana M. Downs, MD, PhD	University of Wisconsin, Madison	IDM
Tatjana Dragic, PhD	Albert Einstein College of Medicine, Yeshiva University	AARR
Gregory R. Dressler,	University of Michigan	MSD
Cheryl F. Dreyfus, PhD	University of Medicine and Dentistry of New Jersey	MDCN
Norman R. Drinkwater, PhD	McArdle Laboratory For Cancer Research	ONC
Gary P. Drobny, PhD	University of Washington	BPC
William R. Drobyski, MD	Medical College of Wisconsin	ONC
Steven M. Dubinett, MD	University of California, Los Angeles	ONC
Raymond N. Dubois, MD, PhD	Vanderbilt University	PPS
Sue P. Duckles, PhD	University of Arizona	CVS
Sharon A. Duffy, PhD	University of California, Riverside	BBBP
Harriet O. Duleep, PhD	Urban Institute	HOP
Ronald S. Duman, MD, PhD	Yale University	MDCN
Nae J. Dun, PhD	Temple University	CVS
Sandra B. Dunbar, PhD	Emory University	HOP
James S. Duncan, PhD	Yale University	SRB
Kathleen L. Dunlap, PhD	New England Medical Center Hospitals	MDCN
Ben M. Dunn, PhD	University of Florida	AARR
John J. Dunn, PhD	Brookhaven Science Association-Brookhaven Laboratory	GNS
Robert C. Dunn, PhD	University of Kansas	BPC
Wesley A. Dunnick, PhD	University of Michigan	IMM
Walter N. Duran, PhD	University of Medicine and Dentistry of New Jersey	CVS
Michael L. Dustin, DSc, MD	New York University School of Medicine	IMM
Richard Brian Dyer, PhD	University of California Los Alamos National Laboratory	BPC
Daniel E. Dykhuizen, PhD	University of Stony Brook	IDM
Steven E. Ealick, PhD	Cornell University	BPC
Walter F. Eanes, PhD	State University of New York	GNS
Ruth Anne Eatock, PhD	Baylor College of Medicine	IFCN
Allison A. Eddy, MD	University of Washington	CVS
Guinevere F. Eden, PhD	Georgetown University	BBBP
Bruce A. Edgar, PhD	Fred Hutchinson Cancer Research Center	CDF
Mira Edgerton, DDS, PhD	State University of New York at Buffalo	MSD
V. Reggie Edgerton, PhD	University of California, Los Angeles	MSD
Michael A. Edidin, PhD	Johns Hopkins University	BPC
Dean P. Edwards, PhD	University of Colorado	ENR
Robert H. Edwards, MD	Federation of American Societies For Experimental Biology	MDCN
Thomas T. Egelhoff, PhD	Case Western Reserve University	CDF
Richard L. Ehman, MD	Mayo Clinic, Rochester	SRB
David J. Eide, PhD	Federation of American Societies For Experimental Biology	BPC
Rina Das Eiden, PhD	State University of New York	BBBP
James C. Eisenach, MD	Wake Forest University Health Sciences	SRB
Laurence C. Eisenlohr, DVM, PhD	Thomas Jefferson University	IDM
Richard S. Eisenstein, PhD	University of Wisconsin, Madison	NMS
Toby K. Eisenstein, PhD	Temple University	AARR
Mahmoud H. El Kouni, PhD	University of Alabama at Birmingham	AARR
Karam E. El-Bayoumy, PhD	Institute For Cancer Prevention	ONC
Samir S. El-Dahr, MD	Tulane University	MSD
Wafik S. El-Deiry, MD, PhD	University of Pennsylvania	ONC
John H. Elder, PhD	Scripps Research Institute	AARR
Lisa A. Elferink, PhD	University of Texas Medical Branch	MDCN
Hedrick Lora Ellenson, MD	Weill Medical College of Cornell University	ONC

Ronald J. Ellis, MD, PhD	University of California	AARR
Joel K. Elmquist, DVM, PhD	Beth Israel Deaconess Medical Center	ENR
Karen D. Emmorey, PhD	Salk Institute For Biological Studies	BBBBP
Stephen A. Engel, PhD	University of California, Los Angeles	IFCN
Alan N. Engelman, PhD	Dana-Farber Cancer Institute	AARR
Denis English, PhD	Methodist Hospital System	MSD
Margaret E. Ensminger, PhD	Johns Hopkins University	RPHB
Chukuka S. Enwemeka, PhD	University of Kansas Medical Center	BBBBP
Janan T. Eppig, PhD	Jackson Laboratory	GNS
Serpil C. Erzurum, MD	Cleveland Clinic Foundation	PPS
Carol Y. Espy-Wilson, PhD	Boston University, Charles River Campus	BBBBP
Denis A. Evans, MD	Rush-Presbyterian-St. Luke's Medical Center	HOP
Todd R. Evans, PhD	Albert Einstein College of Medicine, Yeshiva University	CVS, HEME
Bernard Mark Evers, MD	University of Texas Medical Branch at Galveston	SRB
Douglas C. Ewbank, PhD	University of Pennsylvania	HOP
Robert L. Fairchild, PhD	Cleveland Clinic Foundation	SRB
Hung Y. Fan, PhD	University of California, Irvine	IDM
Mary C. Farach-Carson, PhD	University of Delaware	MSD
Robert A. Farley, PhD	University of Southern California	BPC
Asgerally T. Fazleabas, PhD	Gordon Research Conferences	ENR
Eric R. Fearon, MD, PhD	University of Michigan at Ann Arbor	ONC
Andrew P. Feinberg, MD, PhD	Johns Hopkins University	ONC
Carolyn A. Felix, MD	Children's Hospital of Philadelphia	ONC
David T. Felson, MD	Boston University	HOP
Ziding Feng, PhD	Fred Hutchinson Cancer Research Center	HOP
Julio M. Fernandez, PhD	Columbia University	BPC
Katherine W. Ferrara, PhD	University of California, Davis	SRB
Fernanda F. Ferreira, PhD	Michigan State University	BBBBP
James E. Ferrell, MD, PhD	Stanford University	CDF
Burt G. Feuerstein, MD, PhD	University of California, San Francisco	ONC
James W. Fickett, PhD	GlaxoSmithKline, Inc	GNS
Marie T. Filbin, PhD	Hunter College	MDCN
Thomas E. Finger, PhD	University of Colorado	IFCN
Mitchell P. Fink, MD	University of Pittsburgh	SRB
James H. Finke, PhD	Cleveland Clinic Foundation	ONC
David E. Fisher, MD, PhD	Dana-Farber Cancer Institute	CDF
Robert H. Fitts, PhD	Marquette University	MSD
John G. Fitz, MD	University of Colorado Health Sciences Center	PPS
Paula M. D. Fitzgerald, PhD	Merck Sharp and Dohme Research Laboratories	BPC
Jeffrey R. Fitzsimmons, PhD	University of Florida	SRB
Lorraine A. Flaherty, PhD	Wadsworth Center	GNS
John G. Flanagan, PhD	Harvard University Medical School	MDCN
Annette Fleckenstein, PhD	University of Utah	IFCN
Harvey M. Florman, PhD	University of Massachusetts Medical School, Worcester	ENR
Carey E. Floyd, MD, PhD	Duke University Medical Center	SRB
Michele M. Fluck, PhD	Michigan State University	IDM
Daniel C. Flynn, MD, PhD	Protea Biosciences, Inc	ONC
Marshal F. Folstein, MD	New England Medical Center Hospitals	HOP
Eric Fombonne, MD	Montreal Children's Hospital	BBBBP
Judith M. Ford, PhD	University of California, Los Angeles	BDCN
Tatiana M. Foroud, PhD	Indiana University-Purdue University, Indianapolis	GNS
J. Dennis Fortenberry, MD	Indiana University	HOP
Richard H. Fortinsky, PhD	University of Connecticut School of Medicine and Dentistry	HOP
Thomas C. Foster, PhD	University of Florida	IFCN
Bernard A. Fox, PhD	Providence Portland Medical Center	ONC
Howard S. Fox, MD, PhD	Scripps Research Institute	AARR
Ira J. Fox, MD	University of Nebraska Medical Center	SRB
Joan E.B. Fox, MD, PhD	Cleveland Clinic Foundation	CVS, HEME
Christopher Francklyn, PhD	University of Vermont	BCS
John A. Frangos, PhD	La Jolla Bioengineering Institute	SRB

Dara W. Frank, PhD	Medical College of Wisconsin	IDM
Renty B. Franklin, PhD	University of Maryland	ENR
Michael R. Freeman, PhD	Children's Hospital, Boston	ONC
Lisa M. Frenkel, MD	Children's Hospital and Regional Medical Center	AARR
Gary H. Friday, MD, PhD	Bryn Mawr College	BDCN
Alan D. Friedman, MD	Johns Hopkins University	CVS
Peter A. Friedman, PhD	University of Pittsburgh	MSD
Steven M. Frisch, PhD	Burnham Institute	ONC
Walter R. Frontera, MD, PhD	Spaulding Rehabilitation Hospital	MSD
John W. Frost, PhD	Michigan State University	BPC
William N. Frost, PhD	Chicago Medical School	IFCN
Xin-Yuan Fu, PhD	Yale University	CVS, HEME
Yun-Xin Fu, PhD	University of Texas Health Science Center, Houston	GNS
Leslie C. Fuchs, PhD	Medical College of Georgia	CVS
Amy M. Fulton, PhD	University of Maryland	ONC
Wyndol C. Furman, PhD	University of Denver	RPHB
Philip Furmanski, MD, PhD	New York University	ONC
Zoltan M. Fuzessery, PhD	University of Wyoming	IFCN
Dmitry I. Gabrilovich, MD, PhD	H. Lee Moffitt Cancer Center and Research Institute	IMM
Dana H. Gabuzda, MD	Dana-Farber Cancer Institute	AARR
Dana Gaddy, PhD	University of Arkansas For Medical Sciences	MSD
Thomas M. Gallagher, PhD	Loyola University Medical School	IDM
Gary E. Gallick, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Aleem Gangjee, PhD	Duquesne University	ONC
Jiali Gao, PhD	University of Minnesota, Twin Cities	BPC
Xiaolian Gao, PhD	Atactic Technologies, Inc	BPC
Susan M. Gapstur, PhD	Northwestern University	HOP
Mariano A. Garcia-Blanco, MD, PhD	Duke University Medical Center	BCS
Jose V. Garcia-Martinez, PhD	University of Texas Southwestern Medical Center at Dallas	AARR
Anthony L. Gard, PhD	University of South Alabama	MDCN
Peter J. Garlick, PhD	University of Illinois	NMS
Craig C. Garner, PhD	Stanford University	MDCN
Deborah W. Garnick, ScD	Brandeis University	HOP
Preston E. Garraghty, PhD	Indiana University, Bloomington	IFCN
Darrell J. Gaskin, PhD	Johns Hopkins University	HOP
Kent S. Gates, PhD	University of Missouri	ONC
Estelle B. Gauda, MD	Johns Hopkins University	ENR
Narasimhan Gautam, PhD	Washington University	CDF
Benjamin B. Gelman, MD, PhD	University of Texas Medical Branch at Galveston	AARR
Howard E. Gendelman, MD	University of Nebraska Medical Center	AARR
Robert B. Gennis, PhD	University of Illinois at Urbana-Champaign	BPC
Gunda I. Georg, PhD	University of Kansas, Lawrence	BPC
Susan R. George, MD	University of Toronto	MDCN
Michael K. Georgieff, MD	University of Minnesota	NMS
Craig J. Gerard, MD, PhD	Children's Hospital, Boston	PPS
Louann Gerken, PhD	University of Arizona	BBBP
Robert T. Gerlai, PhD	Saegis Pharmaceuticals, Inc	BBBP
William T. Gerthoffer, PhD	University of Nevada	CVS
George L. Gerton, PhD	University of Pennsylvania Medical Center	ENR
Jacquelyn Gervay-Hague, PhD	University of California, Davis	BPC
Robert H. Getzenberg, PhD	University of Pittsburgh Cancer Center	ONC
Alan M. Gewirtz, MD, PhD	University of Pennsylvania School of Medicine	ONC
Fayez K. Ghishan, MD	University of Arizona	PPS
Anirvan Ghosh, PhD	University of California, San Diego	MDCN
Amato J. Giaccia, PhD	Stanford University	ONC
Nicole S. Gibran, MD	University of Washington	SRB
Gary J. Gibson, PhD	Henry Ford Hospital	MSD
Allen L. Gifford, MD	University of California, San Diego	AARR
Francis Gigliotti, MD	University of Rochester	AARR
Charles D. Gilbert, MD, PhD	The Rockefeller University	IFCN

Peter G. Gillespie, PhD	Oregon Health and Science University	IFCN
T. Conrad Gilliam, PhD	Columbia University	GNS
Robert J. Gillies, PhD	University of Arizona	SRB
Michael S. Gilmore, MD, PhD	University of Oklahoma Health Sciences Center	MSD
Susan K. Gilmour, PhD	Lankenau Institute For Medical Research	ONC
Mark H. Ginsberg, MD	Scripps Research Institute	CVS, HEME
Susan S. Girdler, PhD	University of North Carolina, Chapel Hill	BBBP
Albert W. Girotti, PhD	Medical College of Wisconsin	ONC
Linda C. Giudice, MD, PhD	Stanford University Medical Center	ENR
Anna R. Giuliano, PhD	University of Arizona	HOP
Bennet S. Givens, PhD	Ohio State University	IFCN
Candece L. Gladson, MD	University of Alabama at Birmingham	ONC
David L. Glanzman, PhD	University of California, Los Angeles	IFCN
Christopher K. Glass, MD, PhD	University of California, San Diego	ENR
Gary D. Glick, PhD	University of Michigan	BPC
Alan S. Go, MD	Kaiser Foundation Research Institute	HOP
Rodney C. Go, PhD	University of Alabama	HOP
Patricia Gober, PhD	Arizona State University	HOP
Scott B. Going, PhD	University of Arizona	HOP
Daniel P. Gold, MD, PhD	Sidney Kimmel Cancer Center	IMM
Leslie I. Gold, PhD	New York University Medical Center	ONC
Ira J. Goldberg, MD	Columbia University	NMS
Joanna B. Goldberg, PhD	University of Virginia Health System	IDM
Alan L. Goldin, MD, PhD	University of California, Irvine	MDCN
Stephen D. Godinger, PhD	Arizona State University	BBBP
Susan Jill Goldin-Meadow, PhD	University of Chicago	BBBP
Steve A. N. Goldstein, MD, PhD	Yale University	MDCN
Christopher M. Gomez, MD, PhD	University of Minnesota, Twin Cities	CDF
Oded Gonen, PhD	New York University School of Medicine	SRB
Steven L. Gonias, MD, PhD	University of Virginia	CVS
Nancy Gonzales, PhD	Arizona State University	RPHB
Milagritos Gonzalez-Rivera, PhD	University of Puerto Rico, Mayaguez	AARR
Leslie J. Gonzalez-Rothi, PhD	University of Florida	BBBP
Maureen M. Goodenow, PhD	University of Florida	AARR
Paul J. Goodfellow, PhD	Washington University	ONC
David B. Goodin, PhD	Scripps Research Institute	BPC
Robert L. Goodman, PhD	West Virginia University	ENR
Sherwood L. Gorbach, MD, PhD	Tufts University	AARR
John C. Gore, PhD	Vanderbilt University Medical Center	SRB
Cheryl E. Gore-Felton, PhD	Medical College of Wisconsin	AARR
Fred S. Gorelick, MD	Yale University	PPS
Gregory J. Gores, MD, PhD	Mayo Clinic, Rochester	PPS
Elizabeth Gould, PhD	Princeton University	IFCN
Stephen J. Gould, PhD	Johns Hopkins University	CDF
Joan M. Goverman, PhD	University of Washington	IMM
Patricia A. Gowaty, PhD	University of Georgia	BBBP
David A. Gozal, MD	University of Louisville	PPS
David W. Grainger, MD, PhD	Colorado State University	SRB
Jennifer R. Grandis, MD	University of Pittsburgh School of Medicine	ONC
Joey P. Granger, PhD	Federation of American Societies For Experimental Biology	CVS
Joe W. Gray, PhD	University of California, San Francisco	GNS
Ann M. Graybiel, PhD	Massachusetts Institute of Technology	IFCN
Dennis R. Grayson, PhD	University of Illinois at Chicago	MDCN
Norman M. Greenberg, PhD	Baylor College of Medicine	ENR
Joel S. Greenberger, MD, PhD	University of Pittsburgh	ONC
Joel D. Greenspan, PhD	University of Maryland Baltimore Professional School	IFCN
Charles A. Greer, PhD	Yale University	IFCN
Thomas H. Gridley, PhD	Jackson Laboratory	CDF
Linda G. Griffith, PhD	Massachusetts Institute of Technology	SRB
Jeffrey K. Griffiths, MD	Tufts University	HOP

Thomas M. Grist, MD	University of Wisconsin, Madison	SRB
Murray Grossman, EdD, MD	University of Pennsylvania	BBBBP
Elizabeth A. Grove, PhD	University of Chicago	MDCN
Jonathan H. Gruber, PhD	National Bureau of Economic Research	HOP
Paul J. Gruenewald, PhD	Pacific Institute For Research and Evaluation	HOP
	Henry M. Jackson Foundation For The Advancement of Military Medicine	BDCN
Neil E. Grunberg, PhD		SRB
Warren S. Grundfest, MD	University of California, Los Angeles	MDCN
Donna L. Gruol, PhD	Scripps Clinic and Research Foundation	IFCN
Norberto M. Grzywacz, PhD	University of Southern California	CDF
Kun-Liang Guan, PhD	Oncoimmune Ltd	HOP
Rudy Guerra, PhD	Rice University	SRB
Jose G. Guillem, MD	Sloan-Kettering Institute For Cancer Research	BDCN
Ruben C. Gur, PhD	University of Pennsylvania	IFCN
Howard B. Gutstein, MD, PhD	University of Texas M.D. Anderson Cancer Center	CVS
David D. Gutterman, MD	Medical College of Wisconsin	CVS
Patrice G. Guyenet, PhD	University of Virginia, Charlottesville	HOP
Mary N. Haan, DRPH	University of Michigan	GNS
Daniel A. Haber, MD, PhD	Massachusetts General Hospital	SRB
David B. Hackney, MD	Beth Israel Deaconess Medical Center	AARR
Holly C. Hagan, PhD	National Development and Research Institutes	HOP
Jonathan L. Haines, PhD	Vanderbilt University	IFCN
Joseph W. Hall, PhD	University of North Carolina	HOP
Jeffrey M. Halperin, PhD	Queens College	NMS
Charles H. Halsted, MD, PhD	University of California, Davis	BCS
Robert S. Haltiwanger, PhD	State University of New York at Stony Brook	AARR
Mark T. Hamann, PhD	University of Mississippi	IFCN
Thomas M. Hamm, PhD	St. Joseph's Hospital and Medical Center	AARR
Marie-Louise Hammarskjold, MD, PhD	University of Virginia	BPC
Sharon Hammes-Schiffer, PhD	Pennsylvania State University	IFCN
Robert E. Hampson, PhD	Wake Forest University Health Sciences	HOP
Susan E. Hankinson, DSc, ScD	Harvard University School of Public Health	ONC
Steven K. Hanks, PhD	Vanderbilt University	RPHB
Sydney L. Hans, PhD	University of Chicago	CDF
Ulla M. Hansen, PhD	Boston University, Charles River Campus	CDF
Marie J. Hardwick, PhD	Johns Hopkins University	IFCN
Kenneth M. Hargreaves, DDS, PhD	University of Texas Health Science Center at San Antonio	IFCN
Richard E. Harlan, PhD	Tulane University	CDF
Richard M. Harland, PhD	University of California, Berkeley	IDM
Donald A. Harn, PhD	Harvard University School of Public Health	NMS
Joyce B. Harp, MD	University of North Carolina, Chapel Hill	CDF
Jeffrey W. Harper, PhD	Harvard University Medical School	HOP
Kathleen Mullan Harris, PhD	Substance Abuse and Mental Health Administration	IFCN
Ronald M. Harris-Warrick, PhD	Cornell University, Ithaca	IDM
Rasika M. Harshey, PhD	University of Texas at Austin	IFCN
Michael E. Hasselmo, PhD	Boston University, Charles River Campus	SRB
Anton N. Hasso, MD	University of California, Irvine	ONC
Martin Hauer-Jensen, MD, PhD	University of Arkansas For Medical Sciences	BDCN
Sheryl Haut, MD	Montefiore Medical Center	ENR
William W. Hay, MD	University of Colorado	NMS
Alberto Hayek, MD	University of California, San Diego	CDF
Thomas S. Hays, PhD	University of Minnesota, Twin Cities	AARR
Daria J. Hazuda, PhD	Merck Research Laboratories	HOP
Andrew C. Heath, PhD	Washington University School of Medicine	PPS
Gail A. Hecht, MD	University of Illinois at Chicago	IFCN
Mary M. Heinricher, MD, PhD	Oregon Health and Science University	BDCN
Wendy Heller, PhD	University of Illinois at Urbana-Champaign	IFCN
Fred J. Helmstetter, PhD	University of Wisconsin, Milwaukee	HOP
John E. Helzer, MD	University of Vermont	IFCN
Stewart H. Hendry, PhD	Johns Hopkins University	

Elizabeth P. Henske, MD	Fox Chase Cancer Center	MSD
Dorothee M. Herlyn, DSc, DVM	Wistar Institute	IMM
Gail E. Herman, MD, PhD	Children's Hospital, Columbus	GNS
Brian G. Herndier, MD, PhD	University of California, San Francisco	AARR
David N. Herndon, MD	University of Texas Medical Branch	SRB
Ellen J. Hess, PhD	Johns Hopkins University	IFCN
Jay L. Hess, MD, PhD	University of Pennsylvania	ONC
Michie N. Hesselbrock, PhD	University of Connecticut, Storrs	HOP
Warren D.W. Heston, PhD	Cleveland Clinic Foundation	ONC
Shaul Hestrin, PhD	Stanford University School of Medicine	MDCN
Tomasz Heyduk, PhD	St. Louis University	BPC
Richard D. Hichwa, PhD	University of Iowa	SRB
Robert J. Hickey, PhD	Indiana Cancer Research Center	ONC
Donald W. Hilgemann, PhD	University of Texas Southwestern Medical Center at Dallas	MDCN
Shirley Y. Hill, PhD	University of Pittsburgh	HOP
Pamela Sue Hinds, PhD	Oncology Nursing Society	HOP
Carmen Hinojosa-Laborde, PhD	University of Texas Health Science Center	CDF
Jack A. Hinson, PhD	University of Arkansas For Medical Sciences	PPS
Barry T. Hinton, PhD	University of Virginia	ENR
Tatsuya Hirano, PhD	Cold Spring Harbor Laboratory	CDF
Carol A. Hirshman, MD, PhD	Columbia University Health Science Center	SRB
Robert J. Hitzemann, PhD	Oregon Health and Science University	BDCN
Shuk-Mei Ho, PhD	University of Massachusetts Medical School, Worcester	ENR
Vivian Ho, PhD	University of Alabama at Birmingham	HOP
Jeannette D. Hoit, PhD	University of Arizona	BBBP
James A. Hokanson, PhD	University of Texas Medical Branch	CVS
Lene J. Holland, PhD	University of Missouri, Columbia	ENR
Erika L. Holzbaur, PhD	University of Pennsylvania	CDF
Christopher N. Honda, PhD	University of Minnesota, Twin Cities	IFCN
Vivian Y. Hook, PhD	Buck Institute For Age Research	MDCN
Thomas J. Hope, PhD	University of Illinois College of Medicine	AARR
Shiro Horiuchi, PhD	The Rockefeller University	HOP
David A. Horne, PhD	Oregon State University	BPC
Sandra J. Horning, MD, PhD	Stanford University Medical Center	ONC
Jonathan C. Horton, MD, PhD	University of California, San Francisco	IFCN
Jr. Walter E. Horton, PhD	Northeastern Ohio Universities College of Medicine	MSD
Ramachandra S. Hosmane, PhD	University of Maryland, Baltimore County	AARR
Richard S. Hotchkiss, MD	Washington University	SRB
Janet A. Houghton, PhD	St. Jude Children's Research Hospital	ONC
Peter J. Houghton, PhD	St. Jude Children's Research Hospital	ONC
Joseph A. Houmard, PhD	East Carolina University	MSD
Steven R. Houser, PhD	Temple University	CVS
George Howard, DPH, DRPH	University of Alabama	HOP
Amy R. Howell, PhD	University of Connecticut, Storrs	BPC
Leonard L. Howell, PhD	Yerkes Regional Primate Research Center	IFCN
Thomas R. Hoye, PhD	University of Minnesota	BPC
Lois L. Hoyer, PhD	University of Illinois at Urbana-Champaign	IDM
Patricia B. Hoyer, MD, PhD	University of Arizona	ENR
William J. Hoyer, PhD	Syracuse University	BBBP
Victor J. Hruby, PhD	University of Arizona	MDCN
Connie C. W. Hsia, MD	Southwestern Medical School	PPS
Chih-Lin Hsieh, MD, PhD	University of Southern California	GNS
Xin-Yun Huang, PhD	Weill Medical College of Cornell University	BCS
Wayne L. Hubbell, PhD	University of California, Los Angeles	BPC
Sally A. Huber, PhD	University of Vermont	CVS
Gary B. Huffnagle, PhD	University of Michigan at Ann Arbor	IDM
Rebecca P. Hughey, PhD	University of Pittsburgh	BCS
Geoffrey P. Hunt, PhD	Scientific Analysis Corporation	HOP
Patricia A. Hunt, PhD	Case Western Reserve University	ENR
Christopher A. Hunter, PhD	University of Pennsylvania	AARR

Yasmin Lois Hurd, PhD	Karolinska Institute	IFCN
Marja M. Hurley, MD	University of Connecticut Health Center	MSD
Aletha C. Huston, PhD	University of Texas at Austin	HOP
John C. Hutton, PhD	University of Colorado Health Sciences Center	ENR
Reinhold J. Hutz, PhD	University of Wisconsin, Milwaukee	PPS
Tzyh-Chang Hwang, MD, PhD	University of Missouri, Columbia	MDCN
Nola M. Hylton, PhD	University of California, San Francisco	SRB
Bradley T. Hyman, MD, PhD	Massachusetts General Hospital	MDCN
Michael C. Iannuzzi, MD	Mount Sinai School of Medicine	PPS
Larry D. Icard, PhD	Temple University	AARR
Toshiko Ichiye, PhD	Georgetown University	BPC
Raymond E. Ideker, MD, PhD	University of Alabama at Birmingham	CVS
Holly A. Ingraham, PhD	University of California, San Francisco	ENR
Karl L. Insogna, MD	Yale University School of Medicine	MSD
Luisa Iruela-Arispe, PhD	Gordon Research Conferences	CVS
Ehud Y. Isacoff, PhD	University of California, Berkeley	MDCN
Lionel B. Ivashkiv, MD, PhD	Weill Medical College of Cornell University	IMM
Brent L. Iverson, PhD	University of Texas at Austin	BPC
Christopher R. Jacobs, PhD	Stanford University	MSD
Sandra W. Jacobson, PhD	Wayne State University	BBBP
Pudur Jagadeeswaran, PhD	University of Texas Health Science Center	CVS, HEME
Rosemary Jagus, PhD	University of Maryland Biotechnology Institute	BCS
Anil K. Jaiswal, PhD	Baylor College of Medicine	PPS
Joseph S. Janicki, PhD	Auburn University	CVS
Edward N. Janoff, MD	Veterans Affairs Medical Center	AARR
Yvonne M.W. Janssen-Heininger, PhD	University of Vermont and State Agricultural College	PPS
Theodore S. Jardetzky, PhD	Northwestern University	IMM
Robin L. Jarrett	University of Illinois at Urbana-Champaign	HOP
Diane F. Jelinek, PhD	Mayo Clinic, Rochester	IMM
Patricia A. Jennings, PhD	University of California, San Diego	BPC
Sissy M. Jhiang, PhD	Ohio State University	ENR
Ishwarlal Jialal, MD, PhD	University of California, Davis	CVS
Jack J. Jiang, MD, PhD	Northwestern University	BBBP
Sue Jinks-Robertson, PhD	Gordon Research Conferences	GNS
Jorgen Johansen, PhD	Iowa State University	MDCN
Josephine M. Johns, PhD	University of North Carolina	BBBP
Eric S. Johnson, MD, PhD	Tulane University	HOP
Leonard R. Johnson, PhD	University of Tennessee, Memphis	PPS
Lynne L. Johnson, MD	Rhode Island Hospital (Providence, RI)	SRB
Marcia K. Johnson, PhD	Yale University	IFCN
R. Paul Johnson, MD, PhD	New England Regional Primate Research Center	AARR
Randy L. Johnson, PhD	University of Texas M.D. Anderson Cancer Center	CDF
Daniel Johnston, PhD	Baylor College of Medicine	IFCN
Alun G. Jones, PhD	Harvard University Medical School	SRB
Frank Jordan, PhD	State University of New Jersey	BPC
Peter C. Jordan, PhD	Brandeis University	MDCN
William L. Jorgensen, PhD	Yale University	BPC
Marilyn S. Jorns, PhD	Drexel University	BPC
Suresh K. Joseph, PhD	Thomas Jefferson University	CDF
Madeleine M. Joullie, PhD	University of Pennsylvania	BPC
Ernest N. Jouriles, PhD	Southern Methodist University	RPHB
Theodore Joyce, PhD	Bernard M. Baruch College	HOP
Alexandra L. Joyner, PhD	New York University School of Medicine	GNS
Michael J. Joyner, MD, PhD	Mayo Clinic, Rochester	PPS
Jae U. Jung, PhD	New England Regional Primate Research Center	IDM
Ranu Jung, PhD	Arizona State University	PPS
Silvia S. Jurisson, PhD	University of Missouri	SRB
Laurie S. Kaguni, PhD	Michigan State University	BCS
Robert V. Kail, PhD	Purdue University	BBBP
Robert G. Kalb, MD	Yale University	MDCN

Seth C. Kalichman, PhD	University of Connecticut, Storrs	AARR
Ganjam V. Kalpana, PhD	Albert Einstein College of Medicine, Yeshiva University	AARR
Rohinton T. Kamakaka, PhD	National Institute of Child Health and Human Development	CDF
Norbert E. Kaminski, PhD	Michigan State University	PPS
Chris R. S. Kaneko, PhD	University of Washington	IFCN
Kathleen M. Kantak, PhD	Boston University, Charles River Campus	IFCN
Anumantha G. Kanthasamy, PhD	Iowa State University	BDCN
Andrew H. Kaplan, MD, PhD	University of North Carolina, Chapel Hill	AARR
Heidi B. Kaplan, PhD	University of Texas Health Science Center	IDM
Howard B. Kaplan, PhD	Texas A&M University	RPHB
Andrew Karellas, PhD	Emory University Hospital	SRB
Jonathan Karn, PhD	Case Western Reserve University	AARR
Gerard Karsenty, MD, PhD	Gordon Research Conferences	MSD
Jannet Katz, DDS, PhD	University of Alabama at Birmingham	MSD
Lynn F. Katz, PhD	University of Washington	BBBP
Julie A. Kauer, PhD	Brown University	MDCN
William K. Kaufmann, PhD	University of North Carolina, Chapel Hill	ONC
Scott W. Kauma, MD	Virginia Commonwealth University	ENR
Mark A. Kay, MD, PhD	Stanford University	BCS
James W. Kazura, MD, PhD	Case Western Reserve University	IDM
Michael P. Keane, MB, MD	Yale University	HOP
Tony M. Keaveny, PhD	University of California, Berkeley	MSD
Achsah D. Keegan, PhD	American National Red Cross	IMM
Joyce N. Keifer, PhD	University of South Dakota	IFCN
Janet S. Keithly, PhD	Wadsworth Center	CDF
Kenneth J. Kellar, PhD	Georgetown University Medical Center	MDCN
Asaf Keller, PhD	University of Maryland Baltimore Professional School	IFCN
David E. Kelley, MD	University of Pittsburgh	NMS
Mark R. Kelley, PhD	Indiana University-Purdue University, Indianapolis	ONC
Kathleen A. Kelly, PhD	University of California, Los Angeles	CDF
Sandra J. Kelly, PhD	University of South Carolina	IFCN
Thomas H. Kelly, PhD	University of Kentucky	BBBP
Bette R. Keltner, PhD	University of Alabama at Birmingham	BBBP
Linda J. Kenney, PhD	University of Illinois at Chicago	IDM
Shannon C. Kenney, MD	University of North Carolina	AARR
Mary E. Kerr, PhD	University of Pittsburgh	HOP
Judy R. Kersten, MD	Medical College of Wisconsin	CVS
David H. Kessel, PhD	Wayne State University	ONC
Daniel S. Kessler, PhD	University of Pennsylvania	MDCN
Robert M. Kessler, MD	Vanderbilt University Medical Center	BDCN
Kamel Khalili, PhD	Temple University	AARR
Sohaib A. Khan, PhD	University of Cincinnati	ENR
Sundeep Khosla, MD	Mayo Clinic, Rochester	MSD
Margaret C. Kielian, PhD	Albert Einstein College of Medicine, Yeshiva University	IDM
Jung-Ja P. Kim, PhD	Medical College of Wisconsin	BPC
Kwan Hee Kim, PhD	Washington State University	ENR
Mimi Y. Kim, ScD	Albert Einstein College of Medicine, Yeshiva University	HOP
Sue Y.S. Kimm, MD	University of New Mexico, Albuquerque	NMS
David G. Kingston, PhD	Virginia Polytechnic Institute and State University	BPC
Kathleen W. Kinnally, PhD	New York University	CDF
Michele D. Kipke, PhD	University of Southern California	AARR
Tomas L. Kirchhausen, PhD	CBR Institute For Biomedical Research	CDF
Hirohito Kita, MD	Mayo Clinic	IMM
Bruce S. Klein, MD	University of Wisconsin, Madison	IDM
Samuel Klein, EdD, MD	Washington University	NMS
Eugenie S. Kleinerman, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Daniel J. Klionsky, PhD	University of Michigan at Ann Arbor	CDF
Warren Knudson, PhD	Rush-Presbyterian-St. Luke's Medical Center	MSD
Brian K. Kobilka, MD	Stanford University Medical Center	CVS
Lester Kobzik, MD, PhD	Harvard University School of Public Health	PPS

Thomas J. Kodadek, PhD	University of Texas Southwestern Medical Center at Dallas	BPC
James I. Koenig, PhD	University of Maryland	IFCN
Wendy M. Kohrt, PhD	University of Colorado Health Sciences Center	MSD
Richard N. Kolesnick, MD	Memorial Sloan-Kettering Cancer Center	ONC
Jay K. Kolls, MD	Children's Hospital, Pittsburgh	PPS
Dennis L. Kolson, MD, PhD	University of Pennsylvania	AARR
Roberto G. Kolter, PhD	Harvard University	IDM
Richard W. Komuniecki, PhD	University of Toledo	IDM
Tony A.-N. Kong, PhD	Rutgers University College of Pharmacy	ONC
Dennis R. Koop, PhD	Oregon Health and Science University	PPS
Stephen J. Korn, PhD	University of Connecticut, Storrs	MDCN
Sally A. Kornbluth, PhD	Duke University	CDF
Robert Korngold, PhD	Thomas Jefferson University	ONC
Stella Kourembanas, MD	Children's Hospital, Boston	PPS
Elizabeth J. Kovacs, PhD	Loyola University	PPS
Yoke W. Kow, PhD	Emory University School of Medicine	ONC
Stephen C. Kowalczykowski, PhD	University of California, Davis	BCS
Robert A. Kowatch, MD	Children's Hospital Medical Center, Cincinnati	BBBP
Eileen Kowler, PhD	Rutgers University	IFCN
Margaret J. Koziel, MD, PhD	Beth Israel Deaconess Medical Center	PPS
Adrian R. Krainer, PhD	Cold Spring Harbor Laboratory	CDF
Arthur F. Kramer, PhD	University of Illinois	IFCN
James M. Kramer, PhD	Northwestern University	BCS
Robert S. Krauss, PhD	Mount Sinai School of Medicine	ONC
Paul A. Krieg, PhD	University of Arizona	CDF
Sriram Krishnaswamy, PhD	Emory University	CVS, HEME
Andrzej S. Krolewski, MD, PhD	Joslin Diabetes Center	MSD
Mitchell E. Kronenberg, PhD	La Jolla Institute For Allergy and Immunology	IMM
Robert E. Krumlauf, PhD	Stowers Institute For Medical Research	CDF
Elizabeth A. Krupinski, PhD	University of Arizona	SRB
Richard J. Kuhn, PhD	Purdue University, West Lafayette	IDM
Rakesh C. Kukreja, PhD	Medical College of Virginia	CVS
Molly F. Kulesz-Martin, PhD	Oregon Health and Science University	ONC
Mahendra Kumar, PhD	University of Miami	AARR
Nirbhay Kumar, PhD	Johns Hopkins University	IDM
Rajiv Kumar, DPH, MD	Mayo Clinic, Rochester	MSD
Satya P. Kunapuli, PhD	Temple University of The Commonwealth	CVS, HEME
Karyn S. Kunzelman, MD, PhD	University of Wisconsin, Madison	SRB
Lynn Kuo, PhD	University of Connecticut	HOP
Jonathan M. Kurie, MD, PhD	University of Texas M.D. Anderson Cancer Center	NMS
David J. Kwiatkowski, MD, PhD	Brigham and Women's Hospital	GNS
H. Moo Kwon, PhD	University of Maryland Baltimore Professional School	MSD
John M. Kyriakis, PhD	New England Medical Center Hospitals	BCS
Daniel T. Lackland, DPH, DRPH	Medical University of South Carolina	HOP
James R. Lackner, PhD	Brandeis University	BBBP
Gary W. Ladd, EdD, PhD	Arizona State University	RPHB
Keith R. Laderoute, PhD	SRI International	ONC
Mary J. Ladu, PhD	Evanston Northwestern Healthcare Research Institute	MDCN
Susan E. Laflamme, PhD	Albany Medical College	BCS
Stephen W. Lagakos, PhD	Harvard University Medical School	AARR
Michael M. C. Lai, MD, PhD	University of Southern California	IDM
Lamk M. Lamki, MD	University of Texas Health Science Center, Houston	SRB
Jack R. Lancaster, PhD	University of Alabama at Birmingham	ONC
Kenneth C. Land, PhD	Duke University	HOP
Sheldon H. Landesman, MD	State University of New York at Buffalo	AARR
Nancy E. Lane, MD	University of California	MSD
Charles H. Lang, PhD	Pennsylvania State University	PPS
Lucia R. Languino, PhD	University of Massachusetts Medical School, Worcester	ONC
Stephen M. Lanier, PhD	Louisiana State University Health Sciences Center	CVS
Peter T. Lansbury, PhD	Brigham and Women's Hospital	BPC

Robert Larossa, PhD	American Society For Microbiology	IDM
Janet L. Larson, PhD	University of Illinois at Chicago	HOP
Lawrence H. Lash, PhD	Wayne State University	PPS
Jerome M. Lasker, PhD	Mount Sinai School of Medicine	PPS
Mark L. Latash, PhD	Pennsylvania State University, University Park	BBBP
Keith E. Latham, PhD	Temple University	ENR
Ramon Latorre, PhD	Centro De Estudios Cientificos	MDCN
Alan F. Lau, PhD	University of Hawaii at Manoa	CDF
Mark L. Laudenslager, MD, PhD	University of Colorado	BBBP
David S. Lawrence, PhD	Yeshiva University	BPC
John C. Lawrence, PhD	University of Virginia	BCS
Stuart F. J. Le Grice, PhD	National Cancer Institute	AARR
John L. Leahy, MD	University of Vermont and State Agricultural College	NMS
Andrea C. Leblanc, PhD	McGill University	MDCN
Phoebe S. Leboy, PhD	University of Pennsylvania	MSD
Susan P. Ledoux, PhD	University of South Alabama	ONC
Benhur Lee, MD	University of California, Los Angeles	AARR
Kuo-Fen Lee, PhD	Salk Institute For Biological Studies	MDCN
Margie D. Lee, DVM, PhD	University of Georgia	IDM
Martha B. Lee, PhD	University of California	AARR
Vincent H.L. Lee, PhD	University of Southern California	CVS
Ira M. Leffak, PhD	Wright State University	BCS
Paul V. Lehmann, MD, PhD	Case Western Reserve University	IMM
Ruth E. Lehmann, PhD	New York University School of Medicine	CDF
Elizabeth A. Leibold, PhD	University of Utah	BCS
George Leikauf, PhD	University of Cincinnati Medical Center	PPS
Frederick A. Lenz, MD, PhD	Johns Hopkins University	IFCN
Kenneth E. Leonard, PhD	State University of New York at Buffalo	RPHB
Laurence B. Leonard, PhD	Purdue University	BBBP
Juan J. L. Lertora, MD, PhD	Tulane University	AARR
Frances M. Leslie, PhD	University of California, Irvine	IFCN
Robin A. Lester, PhD	University of Alabama at Birmingham	MDCN
Anthea Letsou, PhD	University of Utah	CDF
Lawrence L. Leung, MD	Stanford University	CVS
Joel M. Levine, PhD	State University of New York	MDCN
Michael S. Levine, MD, PhD	University of California	IFCN
David E. Levy, PhD	New York University School of Medicine	CDF
Laura S. Levy, MD, PhD	Tulane University School of Medicine	IDM
William B. Levy, PhD	University of Virginia	IFCN
Elaine J. Lewis, PhD	Oregon Health and Science University	MDCN
Robert E. Lewis, PhD	University of Nebraska Medical Center	NMS
Klaus F. Ley, MD, PhD	University of Virginia	CVS
Thomas S. Leyh, PhD	Albert Einstein College of Medicine, Yeshiva University	BCS
Zai Liang, PhD	State University of New York at Albany	HOP
Warren S. Liao, PhD	University of Texas M.D. Anderson Cancer Center	BCS
Jonathan D. Licht, MD	Mount Sinai School of Medicine	ONC
Alicia F. Lieberman, PhD	University of California	RPHB
Marguerita Lightfoot, PhD	University of California, Los Angeles	AARR
Anthony Liguori, PhD	Wake Forest University Health Sciences	BBBP
David E. Lilienfeld, MD	FMAS Corporation	HOP
Laura E. Lillien, PhD	University of Pittsburgh	MDCN
Diane C. Lillo-Martin, PhD	Haskins Laboratories	BBBP
Kelvin O. Lim, MD	University of Minnesota, Twin Cities	BDCN
Danyu Lin, PhD	University of North Carolina, Chapel Hill	HOP
Haifan Lin, PhD	Duke University	ENR
Ming-Fong Lin, MD, PhD	University of Nebraska Medical Center	ENR
Shuo Lin, PhD	University of California, Los Angeles	GNS
Weili Lin, PhD	University of North Carolina, Chapel Hill	BDCN
Xihong Lin, PhD	University of Michigan	HOP
Thomas M. Lincoln, PhD	University of South Alabama	CVS

Manfred Lindau, PhD	Max Planck Institute For Medical Research	MDCN
Joel M. Linden, PhD	University of Virginia	CVS
Herbert H. Lipowsky, PhD	Pennsylvania State University	CVS
John D. Lipscomb, PhD	University of Minnesota, Twin Cities	BPC
Diane Lipscombe, PhD	Brown University	MDCN
Mark W. Lipsey, PhD	Vanderbilt University	RPHB
Lawrence Litt, MD, PhD	University of California, San Francisco	SRB
Hung-Wen Liu, PhD	University of Texas	BCS
Maria M. Llabre, PhD	University of Miami School of Medicine	BBBP
Ricardo V. Lloyd, MD, PhD	Mayo Clinic, Rochester	ONC
Eng H. Lo, MD, PhD	Massachusetts General Hospital	BDCN
Warren Lockette, MD	United States Naval Medical Center, San Diego	CVS
Jeffrey J. Lockman, PhD	Tulane University	BBBP
Mary F. Locniskar, PhD	Hill's Pet Nutrition	NMS
Mustafa F. Lokhandwala, PhD	University of Houston	CVS
Barry London, MD, PhD	University of Pittsburgh	CVS
Jeffrey C. Long, PhD	University of Michigan	GNS
Michael W. Long, MD, PhD	University of Michigan at Ann Arbor	CVS, HEME
Richard M. Longnecker, PhD	Northwestern University	IDM
Edith M. Lord, PhD	University of Rochester Medical Center	IMM
Susan T. Lord, PhD	University of North Carolina, Chapel Hill	CVS, HEME
Joseph A. Lorenzo, MD	University of Connecticut School of Medicine and Dentistry	MSD
Sana Loue, JD, PhD	Case Western Reserve University	AARR
David N. Louis, MD	Massachusetts General Hospital	ONC
Michael Lovett, PhD	Washington University	GNS
Malcolm J. Low, MD, PhD	Oregon Health and Science University	ENR
Pedro R. Lowenstein, MD, PhD	Cedars-Sinai Medical Center	MDCN
Irwin Lucki, PhD	University of Pennsylvania	IFCN
Hartmut Luecke, PhD	Charite/Humboldt University	BPC
Victoria J. Lundblad, PhD	Baylor College of Medicine	CDF
Carl Richard Lupica, PhD	National Institute On Drug Abuse	IFCN
Suniya S. Luthar, PhD	Columbia University	RPHB
Katherine F. Luzuriaga, MD	University of Massachusetts Medical School, Worcester	AARR
Karen M. Lyons, PhD	University of California, Los Angeles	MSD
Michael Joseph Lyons, PhD	Boston University, Charles River Campus	HOP
Kenneth P. Mackie, MD	University of Washington	MDCN
Anne-Marie Maddox, MD	University of Arkansas For Medical Sciences	ONC
Bertha K. Madras, PhD	Harvard University Medical School	MDCN
Jay S. Magaziner, PhD	University of Maryland	HOP
James H. Maguire, MD	Centers For Disease Control and Prevention	HOP
Jacquelyn J. Maher, MD	University of California, San Francisco	PPS
Mahin D. Maines, PhD	University of Rochester	PPS
Mark W. Majesky, PhD	University of North Carolina	CVS
Sharmila Majumdar, PhD	University of California	HOP
Alexandros Makriyannis, PhD	University of Connecticut, Storrs	MDCN
Asrar B. Malik, PhD	University of Illinois	SRB
Craig R. Malloy, MD	University of Texas Southwestern Medical Center at Dallas	SRB
Stanley R. Maloy, PhD	San Diego State University	IDM
David J. Mangelsdorf, PhD	University of Texas Southwestern Medical Center at Dallas	ENR
Douglas L. Mann, MD	Baylor College of Medicine	CVS
Lynne E. Maquat, PhD	United States Public Health Service Public Advisory Groups	CDF
Carole L. Marcus	Children's Hospital of Philadelphia	PPS
Robert D. Mare, PhD	University of California, Los Angeles	HOP
Henry Margolis, PhD	Forsyth Institute	MSD
Jeffrey R. Marks, MD, PhD	Duke University Medical Center	ONC
Mary K. Martel, PhD	University of Chicago Medical Center	ONC
Bernard J. Martin, PhD	University of Michigan	BBBP
Richard J. Martin, MD, PhD	Case Western Reserve University	ENR
Jesse D. Martinez, PhD	University of Arizona	ONC
Maria Elena Martinez, MD, PhD	University of Arizona	HOP

Olivia M. Martinez, PhD	Stanford University	SRB
William F. Marzluff, PhD	University of North Carolina	CDF
Deborah C. Mash, PhD	University of Miami School of Medicine	BDCN
Ann S. Masten, PhD	University of Minnesota	RPHB
Larry H. Matherly, PhD	Wayne State University	ONC
Michael B. Mathews, PhD	University of Medicine and Dentistry of New Jersey	BCS
Diane J. Mathis, PhD	Joslin Diabetes Center	IMM
Seiichi P.T. Matsuda, MD, PhD	Rice University	BPC
Robert J. Matusik, MD, PhD	Vanderbilt University	ENR
Nicholas A. Matwiyoff, PhD	University of New Mexico, Albuquerque	BDCN
Martin M. Matzuk, MD, PhD	Baylor College of Medicine	ENR
W. Stratford May, MD, PhD	University of Texas Medical Branch	CVS, HEME
Jonathan Maybaum, PhD	University of Michigan at Ann Arbor	ONC
Jonathan D. Mayer, PhD	University of Washington	HOP
Douglas L. Mayers, MD	Boehringer Ingelheim Pharmaceuticals, Inc	AARR
Stephen L. Mayo, PhD	California Institute of Technology	BPC
Lawrence E. Mays, OD, PhD	University of Alabama at Birmingham	IFCN
Elizabeth McCauley, PhD	University of Washington	BBBP
Laurie K. McCauley, DDS, PhD	University of Michigan at Ann Arbor	MSD
Timothy S. McClintock, PhD	University of Kentucky	IFCN
Paulette J. McCormick, PhD	State University of New York at Albany	ONC
Donald R. McCrimmon, PhD	Northwestern University	PPS
Joseph M. McCune, MD, PhD	J. David Gladstone Institutes	AARR
Joan M. McDowd, PhD	University of Kansas Medical Center	BBBP
Margaret Juliana McElrath, MD, PhD	Keystone Symposia	AARR
Cathy L. McEvoy, PhD	University of South Florida	BBBP
Jacqueline F. McGinty, PhD	Medical University of South Carolina	IFCN
Marion McGregor, DC	Texas Chiropractic College	MSD
Travis C. McGuire, DVM, PhD	Washington State University	AARR
Larry V. McIntire, PhD	Georgia Institute of Technology	SRB
R. Scott McIvor, PhD	University of Minnesota	ONC
Bruce D. McKee, PhD	University of Tennessee	GNS
Suzanne P. McKee, PhD	Smith-Kettlewell Eye Research Institute	IFCN
Randall D. McKinnon, PhD	University of Medicine and Dentistry of New Jersey	MDCN
George L. McLendon, PhD	Princeton University	BPC
Francis J. McMahan, MD	National Institute of Mental Health	HOP
Robert J. McMahan, PhD	University of Washington	RPHB
Jeanie B. McMillin, PhD	University of Texas Health Science Center, Houston	CVS
Judith L. Meinkoth, PhD	University of Pennsylvania	ENR
Karina F. Meiri, PhD	Tufts University School of Medicine	MDCN
Elizabeth D. Mellins, MD	Stanford University	IMM
Andrew L. Mellor, PhD	Medical College of Georgia	IMM
Elizabeth G. Menaghan, PhD	Ohio State University	HOP
Carlos F. Mendes De Leon, PhD	Rush-Presbyterian-St. Luke's Medical Center	HOP
Ram K. Menon, MD	University of Michigan at Ann Arbor	ENR
Juanita L. Merchant, MD, PhD	University of Michigan at Ann Arbor	PPS
Arthur M. Mercurio, MD, PhD	Beth Israel Deaconess Medical Center	ONC
Lisa R. Metsch, PhD	University of Miami	AARR
Joseph M. Metzger, PhD	University of Michigan	CVS
Dieter J. Meyerhoff, PhD	University of California, San Francisco	IFCN
Deborah A. Meyers, MD, PhD	Wake Forest University Health Sciences	CDF
Rosemarie Mick	University of Pennsylvania	ONC
John C. Middlebrooks, PhD	University of Michigan	IFCN
Lucio Miele, MD, PhD	University of Illinois at Chicago	ONC
Steven W. Mifflin, PhD	University of Texas Health Science Center	PPS
S. John Mihic, PhD	Wake Forest University Health Sciences	IFCN
Sharon L. Milgram, PhD	University of North Carolina	BCS
Jeffrey S. Miller, MD	University of Minnesota, Twin Cities	IMM
Ralph R. Miller, PhD	State University of New York at Binghamton	BBBP
Robert H. Miller, MD, PhD	Case Western Reserve University	MDCN

W. Todd Miller, PhD	State University of New York	BCS
Carol L. Miller-Graziano, PhD	University of Massachusetts Medical School, Worcester	SRB
Paul J. Mills, PhD	University of California, San Diego	BBBB
Howard L. Minkoff, MD, PhD	State University of New York Downstate Medical Center	AARR
Lloyd Brooks Minor, PhD	Johns Hopkins University	IFCN
Mark A. Mintun, MD	Washington University	IFCN
Rafael Mira-Y-Lopez, MD, PhD	Mount Sinai School of Medicine	ONC
Lopa Mishra, MD	Temple University	PPS
Braxton D. Mitchell, PhD	University of Maryland	HOP
Ashim K. Mitra, PhD	University of Missouri, Kansas City	CVS
Marek Mlodzik, PhD	Mount Sinai School of Medicine	CDF
Shahriar Mobashery, PhD	University of Notre Dame	BPC
Terrence J. Monks, PhD	University of Arizona	PPS
Luis J. Montaner, DVM, PhD	Wistar Institute	AARR
Erwin B. Montgomery, MD	Cleveland Clinic Foundation	BDCN
Robert R. Montgomery, MD, PhD	Medical College of Wisconsin	CVS, HEME
Thomas J. Montine, MD, PhD	University of Washington	MDCN
Susan L. Mooberry, PhD	Southwest Foundation For Biomedical Research	ONC
Dixon M. Moody, MD	Wake Forest University Health Sciences	SRB
Richard D. Mooney, PhD	Duke University	IFCN
Lorna G. Moore, PhD	University of Colorado Health Sciences Center	ENR
Melissa J. Moore, PhD	Brandeis University	CDF
Stephen C. Moore, PhD	Brigham and Women's Hospital	SRB
Carlos T. Moraes, PhD	University of Miami School of Medicine	GNS
Edward T. Morgan, PhD	Emory University	CVS
Eduardo G. Moros, PhD	Washington University	ONC
Trudy G. Morrison, PhD	University of Massachusetts Medical School, Worcester	IDM
James H. Morrissey, PhD	University of Illinois at Urbana-Champaign	CVS
Casey D. Morrow, PhD	University of Alabama at Birmingham	AARR
Janet R. Morrow, PhD	University of Rochester	BPC
Jason D. Morrow, MD	Vanderbilt University	BCS
Kathryn A. Morton, MD	Wake Forest University Health Sciences	SRB
Ronald A. Morton, MD	Baylor College of Medicine	ONC
Arthur J. Moss, MD	University of Rochester	HOP
Larry G. Moss, MD	Tufts University, Boston	NMS
Kimberly L. Mowry, PhD	Brown University	CDF
Jan A. Moynihan, PhD	University of Rochester	BBBB
Keith J. Mueller, PhD	University of Nebraska Medical Center	HOP
Tom Muir, PhD	The Rockefeller University	BPC
James J. Mule, PhD	University of Michigan Medical Center	ONC
Kathleen Mulligan, PhD	University of California	AARR
Sara J. Mulroy, PhD	Los Amigos Research and Education Institute	MSD
Nancy A. Muma, PhD	Loyola University, Chicago	MDCN
Ken Muneoka, PhD	Tulane University	CDF
Karl Munger, PhD	Harvard University Medical School	IDM
Nikhil C. Munshi, MD, PhD	University of Arkansas at Little Rock	IMM
John P. Murnane, PhD	University of California, San Francisco	ONC
Anne N. Murphy, PhD	Mitokor	MDCN
Bruce D. Murphy, PhD	University of Montreal	ENR
Claire L. Murphy, PhD	San Diego State University	IFCN
David M. Murray, MD, PhD	University of Memphis	HOP
Henry W. Murray, MD	Weill Medical College of Cornell University	IDM
Jeffrey C. Murray, MD, PhD	University of Iowa	GNS
Velma McBride Murry, PhD	University of Georgia	RPHB
Tomas M. Mustelin, MD, PhD	Burnham Institute	IMM
Donald O. Mutti, DSc, OD	Ohio State University	IFCN
Kyle J. Myers, PhD	Food and Drug Administration	SRB
Diana G. Myles, PhD	University of Connecticut School of Medicine and Dentistry	ENR
Madhavan P. Nair, PhD	University of South Alabama	AARR
Robert K. Nakamoto, PhD	University of Virginia	BPC

Lillian B. Nanney, PhD	Cumberland Pharmaceuticals, Inc	SRB
Mohandas Narla, DSc	New York Blood Center	CVS, HEME
Rama Natarajan, PhD	City of Hope/Beckman Research Institute	CVS
Avindra Nath, MD	Johns Hopkins University	AARR
Karl A. Nath, MD	Mayo Clinic, Rochester	CVS
Jenae M. Neiderhiser, PhD	George Washington University	HOP
Jeffrey J. Neil, MD, PhD	St. Louis Children's Hospital	SRB
Janet L. Neisewander, PhD	Arizona State University	BBBBP
Jay A. Nelson, PhD	Virogenomics, Inc	IDM
Mark A. Nelson, PhD	University of Arizona	ONC
Sacha B. Nelson, MD, PhD	Brandeis University	IFCN
William J. Nelson, PhD	Stanford University	CDF
David A. Nemazee, PhD	Scripps Research Institute	IMM
Jeanne M. Nerbonne, MD, PhD	Washington University	CVS
John E. Nestler, MD	Virginia Commonwealth University	ENR
Donna S. Neuberger, DSc, PhD	Dana-Farber Cancer Institute	ONC
Alfred I. Neugut, MD, PhD	Columbia University College of Physicians and Surgeons	HOP
John M. Neuhaus, PhD	University of California	HOP
Claudia M. Neuhauser, PhD	University of Minnesota at Saint Paul	GNS
Michael A. Newton, PhD	University of Wisconsin, Madison	GNS
Jac A. Nickoloff, DRPH, MD	University of New Mexico, Albuquerque	ONC
Grant D. Nicol, MD, PhD	Indiana University-Purdue University, Indianapolis	IFCN
Heber C. Nielsen, MD	New England Medical Center Hospitals	ENR
Richard M. Niles, PhD	Marshall University	ONC
Timothy W. Nilsen, PhD	Case Western Reserve University	CDF
Vishwajit L. Nimgaonkar, MD, PhD	University of Pittsburgh	GNS
Dwight G. Nishimura, PhD	Stanford University	SRB
Lee A. Niswander, PhD	Sloan-Kettering Institute For Cancer Research	CDF
Mark D. Noble, PhD	University of Rochester Medical Center	MDCN
Karen F. Novak, DDS, PhD	University of Kentucky	MSD
Melinda A. Novak, PhD	University of Massachusetts	BBBBP
Noa Noy, PhD	Cornell University, Ithaca	NMS
James M. Ntambi, PhD	University of Wisconsin, Madison	BCS
Giuseppina Nucifora, DSc, PhD	University of Illinois	ONC
Jack H. Nunberg, PhD	University of Montana	AARR
Michel C. Nussenzweig, MD, PhD	Keystone Symposia	IMM
David Oakes, PhD	University of Rochester	HOP
Lina M. Obeid, MD	Medical University of South Carolina	BCS
Carole Ober, PhD	University of Chicago	ENR
Catherine A. O'Brian, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Patricia J. O'Campo, PhD	Johns Hopkins University	AARR
James M. O'Donnell, PhD	University of Tennessee Health Science Center	IFCN
Matthew O'Donnell, PhD	University of Michigan	SRB
Patricio O'Donnell, MD, PhD	Albany Medical College of Union University	IFCN
Theodore R. Oegema, PhD	Rush-Presbyterian-St. Luke's Medical Center	MSD
William J. Ohley, PhD	Life Recovery Systems, Inc	SRB
Yoshio Okada, PhD	University of New Mexico	BDCN
Curtis T. Okamoto, PhD	University of Southern California	MSD
Regis J. O'Keefe, MD, PhD	University of Rochester Medical Center	MSD
Daniel S. O'Leary, PhD	University of Iowa	BDCN
Mitchell A. Olman, MD	University of Alabama at Birmingham	PPS
Carl R. Olson, PhD	Carnegie Mellon University	IFCN
Elizabeth S. Olson, PhD	Columbia University Health Science Center	IFCN
Bradley B. Olwin, PhD	Federation of American Societies For Experimental Biology	CDF
Santa J. Ono, PhD	Schepens Eye Research Institute	IMM
Wee L. Ooi, DRPH, PhD	Hebrew Rehabilitation Center For Aged	HOP
George W. Ordal, PhD	University of Illinois	IDM
Brian O'Rourke, MD, PhD	Johns Hopkins University	CVS
Scott P. Orr, PhD	Massachusetts General Hospital	BBBBP
Timothy F. Osborne, PhD	University of California, Irvine	NMS

Erin K. O'Shea, PhD	University of California, San Francisco	CDF
Lee E. Osterhout, PhD	University of Washington	BBBP
David M. Ota, MD	University of Missouri	ONC
Sally Ozonoff, PhD	University of California, Davis	BBBP
Maurizio Pacifici, PhD	University of Pennsylvania	MSD
James F. Padbury, MD	Women and Infants Hospital-Rhode Island	ENR
Nancy S. Padian, PhD	University of California, San Francisco	AARR
Peter M. Palese, PhD	Mount Sinai School of Medicine	IDM
Jeffrey B. Palmer, MD	Johns Hopkins University	BBBP
Robert J. Pandina, PhD	Rutgers University	HOP
Reynold A. Jr. Panettieri, MD	University of Pennsylvania Medical Center	PPS
Kevin C.H. Pang, PhD	Bowling Green State University	IFCN
Nicholas J. Pantazis, PhD	University of Iowa	IFCN
Thalia Papayannopoulou, DSc, MD	University of Washington	CVS
Diane M. Papazian, PhD	University of California, Los Angeles	MDCN
Denise Coritis Park, PhD	University of Michigan at Ann Arbor	BBBP
William C. Parks, PhD	Washington University	BCS
Ok-Kyong Park-Sarge, PhD	University of Kentucky	ENR
Alvaro Pascual-Leone, MD, PhD	Beth Israel Deaconess Medical Center	BBBP
Gavril W. Pasternak, MD, PhD	Sloan-Kettering Institute For Cancer Research	MDCN
Piyush M. Patel, MD	Veterans Medical Research Foundation, San Diego	SRB
Pragna I. Patel, PhD	Baylor College of Medicine	MSD
Tarun B. Patel, PhD	Loyola University Medical Center	BCS
Donald L. Patrick, PhD	University of Washington School of Public Health	HOP
Kevin M. Patrick, MD	University of California, San Diego	HOP
David L. Pauls, PhD	Massachusetts General Hospital	HOP
Keith D. Paulsen, PhD	Dartmouth College	SRB
John A. Payne, PhD	University of California, Davis	MDCN
Munro Peacock, MD	Indiana University-Purdue University, Indianapolis	MSD
William H. Pearce, MD	Northwestern University	SRB
Carlos H. Pedemonte, PhD	University of Houston	BCS
Ann Marie Pendergast, PhD	Duke University Medical Center	CVS, HEME
A. Myriam Peralta-Carcelen, MD	University of Alabama at Birmingham	BBBP
Roman Perez-Soler, MD	Tigen Pharmaceuticals	ONC
Muthu Periasamy, PhD	Ohio State University	CVS
Kenneth A. Perkins, PhD	Society For Research On Nicotine and Tobacco	BBBP
Stanley Perlman, MD, PhD	University of Iowa	IDM
Eduardo A. Perozo, PhD	University of Virginia School of Medicine	MDCN
Bice Perussia, MD	Thomas Jefferson University	IMM
Richard G. Pestell, DPH, MD	Georgetown University	ENR
Dennis R. Petersen, PhD	University of Colorado Health Sciences Center	PPS
Craig L. Peterson, MD, PhD	University of Massachusetts Medical School, Worcester	CDF
Gina R. Petroni, PhD	University of Virginia School of Medicine	ONC
Christos J. Petropoulos, PhD	Virologic, Inc	AARR
John A. Petros, MD	Emory University School of Medicine	ENR
Russell C. Petter, PhD	Biogen Inc	BPC
Gerd P. Pfeifer, PhD	City of Hope National Medical Center	ONC
Steven E. Pfeiffer, PhD	University of Connecticut School of Medicine and Dentistry	MDCN
Martin A. Philbert, PhD	University of Michigan at Ann Arbor	IFCN
Linda L. Phillips, PhD	Virginia Commonwealth University	BDCN
Margaret A. Phillips, PhD	University of Texas Southwestern Medical Center at Dallas	IDM
John C. Piacentini, PhD	University of California, Los Angeles	BBBP
Cecile M. Pickart, PhD	American Society For Cell Biology	BCS
Louis J. Picker, MD, PhD	Oregon Health and Science University	AARR
Jennifer A. Pietenpol, PhD	Vanderbilt University School of Medicine	ONC
J. Wesley Pike, PhD	University of Wisconsin	MSD
Shiv S. Pillai, MB, DPH	Massachusetts General Hospital	IMM
Peipei Ping, PhD	University of California, Los Angeles	CVS
David J. Pinsky, MD	University of Michigan at Ann Arbor	SRB
Liise-Anne Pirofski, MD	Yeshiva University	IDM

Etta D. Pisano, MD	University of North Carolina, Chapel Hill	SRB
Theresa T. Pizarro, PhD	University of Virginia Health System	PPS
Vicente Planelles, PhD	University of Utah	AARR
Jeffrey L. Platt, MD	Mayo Clinic, Rochester	SRB
David C. Plaut, PhD	Carnegie Mellon University	BBBP
Eric M. Poeschla, MD	Mayo Clinic, Rochester	AARR
John M. Polich, PhD	Scripps Research Institute	IFCN
K. Michael Pollard, PhD	Scripps Research Institute	PPS
Liza A. Pon, PhD	Columbia University College of Physicians and Surgeons	CDF
Frank F. Porreca, PhD	University of Arizona	IFCN
Didier Portilla, MD	University of Arkansas For Medical Sciences	MSD
James W. Posakony, PhD	University of California, San Diego	GNS
Carol B. Post, PhD	Purdue University	BPC
Charalabos Pothoulakis, MD	Beth Israel Deaconess Medical Center	PPS
Lucas D. Pozzo-Miller, PhD	University of Alabama at Birmingham	MDCN
Bidadi V. Prasad, PhD	Baylor College of Medicine	BPC
Vinayaka R. Prasad, PhD	Albert Einstein College of Medicine, Yeshiva University	AARR
Ross L. Prentice, PhD	Fred Hutchinson Cancer Research Center	HOP
Alice S. Prince, MD	Columbia University	PPS
Ronald J. Prinz, PhD	University of South Carolina	HOP
Bruce M. Psaty, MD, PhD	University of Washington	HOP
Alvaro Puga, PhD	University of Cincinnati	PPS
John Quackenbush, PhD	Institute For Genomic Research	GNS
Paul Quinn, PhD	Washington and Jefferson College	BBBP
Daniel Rabinowitz, PhD	Columbia University	HOP
Howard C. Rachlin, PhD	State University of New York at Stony Brook	BBBP
Anna Radomska-Pandya, PhD	University of Arkansas For Medical Sciences	CVS
Sally Radovick, MD	University of Chicago Hospitals	ENR
Christian R. Raetz, MD, PhD	Duke University Medical Center	BCS
Marcela Raffaelli, PhD	University of Nebraska, Lincoln	AARR
David W. Raible, PhD	University of Washington	MDCN
William E. Rainey, PhD	University of Texas Southwestern Medical Center at Dallas	CVS
Mohan K. Raizada, PhD	University of Florida	CVS
Daniel P. Raleigh, PhD	State University of New York at Stony Brook	BPC
Lorraine O. Ramig, PhD	University of Colorado at Boulder	BBBP
Jan-Marino Ramirez, PhD	University of Chicago	IFCN
Ary S. Ramoa, MD, PhD	Virginia Commonwealth University	IFCN
Kenneth S. Ramos, MD, PhD	Gordon Research Conferences	PPS
Reuben Ramphal, MD	University of Florida	IDM
Rosalind Ramsey-Goldman, DRPH, MD	Northwestern University	HOP
Vivek M. Rangnekar, PhD	University of Kentucky College of Medicine	ONC
Mahendra S. Rao, MD, PhD	National Institute On Aging	MDCN
Theodore Raphan, PhD	Brooklyn College	IFCN
Bruce D. Rapkin, MD, PhD	Sloan-Kettering Institute For Cancer Research	AARR
Rajiv R. Ratan, MD, PhD	Beth Israel Deaconess Medical Center	MDCN
Kodi S. Ravichandran, PhD	University of Virginia	IMM
Neelakanta Ravindranath, PhD	Georgetown University Medical Center	ENR
Viresh H. Rawal, PhD	University of Chicago	BPC
David J. Rawlings, MD	Children's Hospital and Regional Medical Center	IMM
Anuradha Ray, PhD	Yale University School of Medicine	PPS
Helen E. Raybould, PhD	University of California, Davis	PPS
John R. Raymond, MD, PhD	Medical University of South Carolina	MDCN
Keith Rayner, PhD	University of Massachusetts	BBBP
G. Sullivan Read, PhD	University of Missouri, Kansas City	IDM
Beth A. Reboussin, PhD	Wake Forest University Health Sciences	HOP
Bandaru S. Reddy, DVM, PhD	Institute For Cancer Prevention	ONC
Kaladhar B. Reddy, PhD	Wayne State University	ENR
Mark S. Redfern, PhD	University of Pittsburgh	IFCN
Steven I. Reed, PhD	Scripps Research Institute	CDF
Renee A. Reijo Pera, PhD	University of California, San Francisco	ENR

Steven L. Reiner, MD	University of Pennsylvania	IDM
Martin L. Reite, MD	University of Colorado Health Sciences Center	BDCN
Mary V. Relling,	St. Jude Children's Research Hospital	CVS
Daniel G. Remick, MD	University of Michigan	SRB
Sandra A. Rempel, PhD	Henry Ford Hospital	ONC
Linda L. Restifo, MD, PhD	University of Arizona	MDCN
Karen L. Reue, PhD	University of California, Los Angeles	NMS
Ian J. Reynolds, PhD	University of Pittsburgh School of Medicine	MDCN
Lawrence P. Reynolds, PhD	North Dakota State University	ENR
George A. Ricaurte, MD, PhD	Johns Hopkins University, Bayview Medical Center	BDCN
Andrew P. Rice, PhD	Baylor College of Medicine	AARR
Stephen S. Rich, MD, PhD	Wake Forest University Health Sciences	HOP
David W.H. Riches, PhD	National Jewish Medical and Research Center	IMM
Ellen R. Richie, PhD	University of Texas M.D. Anderson Cancer Center	IMM
R. Kirk Riemer, PhD	Stanford University	ENR
Margaret A. Riley, PhD	Yale University	GNS
Clare M. Rinnac, PhD	Case Western Reserve University	MSD
Charles R. Rinaldo, PhD	University of Pittsburgh	AARR
Linda M. Rinaman, PhD	University of Pittsburgh	IFCN
Carrie W. Rinker-Schaeffer, MD, PhD	University of Chicago School of Medicine	ONC
Eduardo Rios, PhD	Rush-Presbyterian-St. Luke's Medical Center	CVS
Erik L. Ritman, DPH, MD	Mayo Clinic, Rochester	SRB
Joseph K. Ritter, PhD	Virginia Commonwealth University	CDF
Mario Rivera, PhD	University of Kansas, Lawrence	BPC
Michael E. C. Robbins, PhD	Wake Forest University Health Sciences	ONC
Paul D. Robbins, PhD	University of Pittsburgh	ONC
Mary F. Roberts, PhD	Boston College	BCS
Robert E. Roberts, MD, PhD	University of Texas Health Science Center, Houston	HOP
Erle S. Robertson, PhD	University of Pennsylvania	AARR
James E. Robinson, MD	Tulane University	AARR
Michael B. Robinson, MD, PhD	Children's Hospital of Philadelphia	MDCN
Rafaela R. Robles, EdD	Universidad Central Del Caribe	AARR
Karin D. Rodland, PhD	Oregon Health and Science University	ONC
German Rodriguez, PhD	Princeton University	HOP
Michael A. Rodriguez, MD	University of California, Los Angeles	HOP
Paul D. Roepe, PhD	Georgetown University	IDM
Deborah A. Roess, PhD	Colorado State University	ENR
Thomas E. Rohan, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	HOP
Lorna W. Role, PhD	Columbia University College of Physicians and Surgeons	MDCN
Barrett J. Rollins, MD, PhD	Dana-Farber Cancer Institute	CVS
Daniel Romo, PhD	Texas A&M University	BPC
Martin J.J. Ronis, PhD	University of Arkansas For Medical Sciences	PPS
Gabriele V. Ronnett, MD, PhD	Johns Hopkins University School of Medicine	MDCN
David S. Roos, PhD	University of Pennsylvania	IDM
Clifford J. Rosen, MD, PhD	Jackson Laboratory	MSD
Daniel W. Rosenberg, PhD	University of Connecticut Health Center	ONC
Myrna R. Rosenfeld, MD, PhD	University of Pennsylvania	ONC
Bernard A. Rosner, PhD	Brigham and Women's Hospital	HOP
Julie A. Ross, PhD	University of Minnesota, Twin Cities	HOP
Vincent M. Rotello, PhD	University of Massachusetts, Amherst	BPC
Bryan L. Roth, MD, PhD	Case Western Reserve University	MDCN
Gerald J. Roth, MD	University of Washington	CVS, HEME
Joel H. Rothman, PhD	University of California, Santa Barbara	CDF
Barry T. Rouse, DSc	University of Tennessee, Knoxville	IMM
Benoit Roux, PhD	Weill Medical College of Cornell University	BPC
Ananda L. Roy, PhD	Tufts University	IMM
Polly Roy, PhD	University of Alabama at Birmingham	IDM
Walter Royal, MD	Morehouse School of Medicine	AARR
Pradip Roy-Burman, PhD	University of Southern California	ONC
Deborah J. Rubens, MD	University of Rochester Medical Center	SRB

Eric H. Rubin, MD, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	ONC
Raphael Rubin, MD	Thomas Jefferson University	IFCN
Robert L. Rubinstein, PhD	University of Maryland, Baltimore County	HOP, RPHB
Alexander Rudensky, PhD	University of Washington School of Medicine	IMM
Jerry W. Rudy, PhD	University of Colorado at Boulder	IFCN
Marschall S. Runge, MD, PhD	Federation of American Societies For Experimental Biology	CVS
David Ruppert, PhD	Cornell University	HOP
Nancy J. Rusch, PhD	Medical College of Wisconsin	CVS
Anil K. Rustgi, MD	University of Pennsylvania	PPS
Louise M. Ryan, PhD	Harvard University School of Public Health	HOP
Scott D. Rychnovsky, PhD	University of California, Irvine	BPC
Ralph L. Sacco, MD, PhD	Columbia University	HOP
Audrey Frieda Saftlas, PhD	University of Iowa	HOP
Jacqueline Sagen, MD, PhD	University of Miami	IFCN
Robert L. Sah, MD, PhD	University of California, San Diego	MSD
David J. Sahn, MD	Oregon Health and Science University	SRB
Hamid M. Said, PhD	University of California, Irvine	PPS
M. Ram Sairam, PhD	Clinical Research Institute of Montreal	ENR
Haruo Saito, PhD	Dana-Farber Cancer Institute	CDF
Ronald L. Sakaguchi, DDS, PhD	Oregon Health and Science University	MSD
Randall R. Sakai, PhD	University of Cincinnati	IFCN
Padmini Salgame, PhD	Temple University	AARR
Robert F. Saltz, PhD	Prevention Research Center	HOP
W. Mark Saltzman, PhD	Yale University	SRB
Guy S. Salvesen, PhD	Burnham Institute	MDCN
Jonathan M. Samet, MD	Johns Hopkins University	HOP
Tarek Sammakia, PhD	University of Colorado	BPC
Nicole S. Sampson, PhD	State University of New York at Stony Brook	BPC
Aziz Sancar, MD, PhD	University of North Carolina, Chapel Hill	BCS
Edwin R. Sanchez, PhD	Medical College of Ohio at Toledo	ENR
Charles R. Sanders, DDS, MD	Vanderbilt University	BPC
Joan E. Sanders, PhD	University of Washington	MSD
Ignacio E. Sanz, MD	University of Rochester	IMM
James D. Sargent, MD	Dartmouth College	HOP
Dipak K. Sarkar, DPH	Cook College	IFCN
Peter Sarnow, PhD	Stanford University	IDM
David A. Sassoon, PhD	Mount Sinai School of Medicine	CDF
William A. Sather, PhD	University of Colorado Health Sciences Center	MDCN
Lisa M. Satlin, MD	Mount Sinai School of Medicine	MSD
Virginia J. Savin, MD	Medical College of Wisconsin	MSD
Suzanne F. Scarlata, PhD	State University of New York at Stony Brook	BPC
Antonio Scarpa, MD, PhD	Case Western Reserve University	BCS
Helen E. Scharfman, PhD	Helen Hayes Hospital	MDCN
Tim B. Schedl, PhD	Washington University	GNS
Stephen W. Scheff, PhD	University of Kentucky	MDCN
Steven J. Schiff, MD, PhD	George Mason University	IFCN
John C. Schimenti, PhD	Cornell University, Ithaca	GNS
Mark R. Schleiss, MD	Children's Hospital Medical Center, Cincinnati	HOP
Mark S. Schlissel, MD, PhD	University of California, Berkeley	IMM
Sandra L. Schmid, PhD	Scripps Research Institute	CDF
Martin C. Schmidt, PhD	University of Pittsburgh	IDM
H. William Schnaper, MD	Northwestern University	CVS
Lowell E. Schnipper, MD	Beth Israel Deaconess Medical Center	ONC
Steven B. Scholnick, PhD	Washington University	MSD
John R. Schreiber, MD, PhD	American Red Cross, Holland Laboratory	IDM
Lucia Schuger, MD	Wayne State University	ENR
Hildegard M. Schuller, DVM, PhD	University of Tennessee	ONC
Paul T. Schumacker, PhD	University of Chicago	PPS
Stephen Marc Schwartz, MD, PhD	Fred Hutchinson Cancer Research Center	HOP

Jean E. Schwarzbauer, PhD	Princeton University	BCS
Robert A. Sclafani, PhD	University of Colorado Health Sciences Center	BCS
William E. Seaman, MD	Northern California Institute For Research and Education	IMM
Elizabeth R. Seaquist, MD, PhD	University of Minnesota Medical School	NMS
Lillie L. Searles, PhD	University of North Carolina	GNS
John M. Sedivy, PhD	Brown University	CDF
John R. Sedor, MD	Case Western Reserve University	MSD
Nadrian C. Seeman, PhD	New York University	BPC
Amita Sehgal, PhD	University of Pennsylvania School of Medicine	GNS
Chandra M. Sehgal, PhD	University of Pennsylvania	SRB
Ronald Seifer, PhD	Emma Pendleton Bradley Hospital	RPHB
Frank W. Sellke, MD	Beth Israel Deaconess Medical Center	SRB
Clay F. Semenkovich, MD	Washington University	NMS
Charles N. Serhan, PhD	Brigham and Women's Hospital	CVS, HEME
William C. Sessa, Jr., PhD	Yale University	CVS
Lori A. Setton, PhD	Duke University	MSD
Eva M. Sevcik-Muraca, PhD	University of Texas Health Science Center, Houston	SRB
Timothy J. Shafer, PhD	United States Environmental Research Center	IFCN
William M. Shafer, PhD	Gordon Research Conferences	IDM
Joel H. Shaper, PhD	Johns Hopkins University	BCS
Steven D. Shapiro, MD	Washington University	PPS
Kumar Sharma, MD	Thomas Jefferson University	MSD
Arlene H. Sharpe, MD, PhD	Harvard University Medical School	IMM
Nilabh Shastri, PhD	University of California	IMM
Bennett A. Shaywitz, MD	Yale University	BBBP
Terez Shea-Donohue, PhD	Uniformed Services University of Health Sciences	PPS
Anantha Shekhar, MD, PhD	Indiana University	BBBP
Ben Shen, PhD	University of Wisconsin, Madison	BPC
Binghui Shen, PhD	City of Hope/Beckman Research Institute	ONC
Michael M. Shen, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	CDF
Roh-Yu Shen, PhD	State University of New York at Buffalo	IFCN
Martha E. Shenton, PhD	Harvard University Medical School	BDCN
Kenneth J. Sher, PhD	University of Missouri, Columbia	HOP
A. Dean Sherry, PhD	University of Texas at Dallas	BPC
Barbara Sherry, PhD	North Carolina State University	IDM
Yang Shi, PhD	Harvard University Medical School	CDF
Margaret M. Shiffar, PhD	Rutgers University	BBBP
Toni S. Shippenberg, PhD	National Institute On Drug Abuse	IFCN
Steven E. Shoelson, MD, PhD	Harvard University Medical School	NMS
Shivendra D. Shukla, PhD	University of Missouri, Columbia	PPS
Dikoma C. Shungu, PhD	Mount Sinai School of Medicine	SRB
Trevor J. Shuttleworth, PhD	University of Rochester	CDF
Ann-Bin Shyu, PhD	University of Texas Health Science Center, Houston	CDF
Gary C. Sieck, PhD	Mayo Clinic, Rochester	IFCN
Shepard Siegel, PhD	McMaster University	BBBP
Curt D. Sigmund, PhD	University of Iowa College of Medicine	CVS
Karen A. Sigvardt, PhD	University of California, Davis	IFCN
Theresa M. Siler-Khodr, PhD	University of Texas Health Science Center at San Antonio	ENR
Jerry W. Simecka, PhD	University of North Texas Health Science Center	IDM
Rebecca A. Simmons, MD	University of Pennsylvania	ENR
M. Celeste Simon, PhD	University of Pennsylvania	CVS
Donald A. Simone, PhD	University of Minnesota	IFCN
Robert F. Simons, PhD	University of Delaware	BBBP
Pippa M. Simpson, PhD	University of Arkansas	HOP
Thomas A. Singarella, PhD	University of Tennessee Health Science Center	RPHB
Shivendra V. Singh, PhD	University of Pittsburgh Cancer Institute	ONC
Patrick J. Sinko, PhD	Rutgers University	CVS
Jeffrey Skolnick, PhD	State University of New York at Buffalo	BPC
Stephen T. Smale, PhD	University of California, Los Angeles	CDF

Eric J. Smart, PhD	University of Kentucky	CVS
Brian H. Smith, PhD	Ohio State University	BBBBP
C. Wayne Smith, MD, PhD	Baylor College of Medicine	CVS, HEME
David F. Smith, PhD	Mayo Clinic, Rochester	ENR
Earl L. Smith, OD, PhD	University of Houston	IFCN
Linda B. Smith, PhD	Indiana University, Bloomington	BBBBP
Malcolm M. Smith, PhD	University of Virginia School of Medicine	GNS
Susan M. Smith, PhD	University of Wisconsin	IFCN
Theresa J. Smith, PhD	University of South Carolina at Columbia	ONC
William M. Smith, PhD	University of Alabama at Birmingham	SRB
Alan V. Smrcka, PhD	University of Rochester	CVS
E. Charles Snow, PhD	University of Kentucky	IMM
Edward L. Snyder, MD	Yale University School of Medicine	CVS, HEME
Sonya K. Sobriani, PhD	Howard University	BBBBP
John F. Soechting, PhD	University of Minnesota	BBBBP
Gurkirpal S. Sohal, PhD	Medical College of Georgia	MDCN
Stephen P. Soltoff, PhD	Beth Israel Deaconess Medical Center	MSD
Emel Songu-Mize, PhD	Louisiana State University Health Sciences Center	CVS
Mohan L. Sopori, PhD	Lovelace Biomedical and Environmental Research	AARR
Robert Soufer, MD	Yale University	BBBBP
Gerald J. Spangrude, PhD	University of Utah	CVS, HEME
Grace A. Spatafora, PhD	Middlebury College	MSD
Nancy A. Speck, PhD	Dartmouth College	CVS
Katherine R. Spindler, PhD	University of Michigan at Ann Arbor	IDM
Arun Srivastava, PhD	Indiana University-Purdue University, Indianapolis	BCS
Deepak Srivastava, MD	Keystone Symposia	CDF
Daret K. St. Clair, PhD	University of Kentucky	ONC
Chuck Staben, PhD	University of Kentucky	GNS
Mary Sharon Stack, PhD	Northwestern University Medical School	ONC
Miguel J. Stadecker, MD, PhD	Tufts University, Boston	IDM
Gregory L. Stahl, PhD	Brigham and Women's Hospital	SRB
Theodore J. Standiford, MD	University of Michigan	PPS
Joan G. Staniswalis, PhD	University of Texas	HOP
Samuel L. Stanley, MD, PhD	Washington University School of Medicine	IDM
Philip Stashenko, DMD, PhD	Harvard University Medical School	MSD
Janet M. Stavnezer, PhD	University of Massachusetts Medical School, Worcester	IMM
Janet L. Stein, PhD	University of Massachusetts Medical School, Worcester	BCS
Roland W. Stein, PhD	Vanderbilt University	ENR
Susan F. Steinberg, MD	Columbia University	CVS
Joseph E. Steinmetz, PhD	Indiana University	BBBBP
Joan E. Stein-Streilein, PhD	Schepens Eye Research Institute	IMM
David M. Stern, MD	Medical College of Georgia	CVS
Michael J. Stern, PhD	Rice University	MDCN
Rolf Sternglanz, PhD	State University of New York at Stony Brook	CDF
Valley J. Stewart, PhD	University of California, Davis	IDM
Cynthia A. Stifter, PhD	Pennsylvania State University	BBBBP
Joseph R. Stimers, PhD	University of Arkansas For Medical Sciences	CVS
Elizabeth A. L. Stine-Morrow, PhD	University of Illinois at Urbana-Champaign	BBBBP
Kathleen S. Stone, PhD	Ohio State University	HOP
Walter J. Storkus, MD, PhD	University of Pittsburgh School of Medicine	IMM
Steffanie A. Strathdee, PhD	Johns Hopkins University	AARR
Stephen M. Strittmatter, MD, PhD	Yale University School of Medicine	MDCN
Susan Strome, PhD	Indiana University	CDF
Gail W. Stuart, MD, PhD	Medical University of South Carolina	HOP
Lisa J. Stubbs, PhD	University of California	GNS
Stephanie A. Studenski, MD	University of Pittsburgh	MSD
Heidi Stuhlmann, PhD	Scripps Research Institute	CVS
Michael S. Sturek, PhD	University of Missouri	CVS
Joy E. Sturtevant, PhD	Louisiana State University Health Sciences Center, New Orleans	AARR
Lishan Su, PhD	University of North Carolina	AARR

Edward C. Suarez, PhD	Duke University Medical Center	BBBBP
Fengzhu Sun, PhD	University of Southern California	HOP
Shumei S. Sun, PhD	Wright State University	HOP
Uma Sundaram, MD	University of Rochester Medical Center	PPS
Wesley I. Sundquist, PhD	University of Utah	AARR
Patrick M..W. Sung, PhD	Yale University	ONC
Elizabeth J. Susman, PhD	Pennsylvania State University, University Park	RPHB
Ezra S. Susser, DPH	Columbia University Health Science Center	HOP
Robert J. Sutherland, PhD	University of Lethbridge	IFCN
William W. Sutherland, MD	Huntington Medical Research Institutes	BDCN
Craig K. Svensson, PhD	University of Iowa	CVS
Sankar Swaminathan, MD	University of Florida	AARR
Hollie I. Swanson, PhD	University of Kentucky	PPS
Joann B. Sweasy, PhD	Yale University	ONC
John A. Sweeney, MD, PhD	University of Illinois at Chicago	BDCN
Hazel H. Szeto, MD, PhD	Weill Medical College of Cornell University	IFCN
Jacob I. Sznajder, MD	Northwestern University	PPS
Francis C. Szoka, PhD	University of California, San Francisco	CVS
George E. Taffet, MD	Baylor College of Medicine	MSD
William T. Talman, MD, PhD	University of Iowa	CVS
Michael M. Tamkun, PhD	Colorado State University	CVS
Ming T. Tan, MD, PhD	University of Maryland Baltimore Professional School	ONC
Michael K. Tanenhaus, PhD	University of Rochester	BBBBP
Caroline M. Tanner, MD, PhD	Parkinson's Institute	HOP
Stephan R. Targan, MD	Cedars-Sinai Medical Center	PPS
Mark B. Taubman, MD, PhD	University of Rochester	CVS
Jane R. Taylor, PhD	Yale University	BBBBP
James M. Tepper, PhD	Rutgers University	IFCN
Robert S. Tepper, MD, PhD	Indiana University School of Medicine	PPS
Bruce I. Terman, PhD	Albert Einstein College of Medicine, Yeshiva University	CVS
Louis Terracio, PhD	New York University	CVS
Paul F. Terranova, PhD	University of Kansas Medical Center	PPS
Michael L. Terrin, MD	Maryland Medical Research Institute, Inc	HOP
Thomas C. Terwilliger, PhD	University of California Los Alamos National Laboratory	BPC
William E. Theurkauf, PhD	University of Massachusetts Medical School, Worcester	CDF
Dennis J. Thiele, PhD	University of Michigan at Ann Arbor	CDF
Myrtle J. Thierry-Palmer, PhD	Morehouse School of Medicine	NMS
David D. Thomas, PhD	University of Minnesota, Twin Cities	BPC
James D. Thomas, MD	Cleveland Clinic Foundation	CVS
Peter Thomas, PhD	Boston University School of Medicine	PPS
Robert P. Thompson, PhD	Medical University of South Carolina	CVS
Wesley J. Thompson, PhD	University of Texas	MDCN
Terence P. Thornberry, PhD	State University of New York	RPHB
Kent L. Thornburg, PhD	Oregon Health and Science University	ENR
Colin Thorpe, PhD	University of Delaware	BCS
Peter E. Thorsness, PhD	University of Wyoming	BCS
Rong Tian, MD, PhD	Brigham and Women's Hospital	CVS
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Roland Michael Tisch, PhD	University of North Carolina	IMM
Hemant K. Tiwari, PhD	University of Ohio	HOP
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Patrick H. Tolan, PhD	University of Illinois College of Medicine	RPHB
William B. Tolman, PhD	University of Minnesota, Twin Cities	BPC
Alan E. Tomkinson, PhD	University of Maryland Baltimore Professional School	ONC
Antoni P. Tomsia, PhD	Lawrence Berkeley National Laboratory	MSD
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Sara Torres, PhD	University of North Carolina	HOP
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Daniel T. Tranel, PhD	University of Iowa	IFCN
Rebecca A. Treiman, PhD	Washington University	BBBBP
Maurizio Trevisan, MD	State University of New York at Buffalo	HOP
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Donald L. Trump, MD	Roswell Park Cancer Institute	ONC
Ah-Lim Tsai, PhD	University of Texas Health Science Center, Houston	BPC
Luke Y. Tsai, MD	University of Michigan	BBBBP
Betty P. Tsao, PhD	University of California, Los Angeles	IMM
George C. Tsokos, DSc, MD	Clinical Immunology Society	IMM
Akira Tsuda, PhD	Harvard University School of Public Health	PPS
Mendel Tuchman, MD	Children's Research Institute	BCS
Christopher E. Turner, PhD	State University of New York	CDF
David J. Tweardy, MD	Baylor College of Medicine	CVS, HEME
Benjamin Tycko, MD, PhD	Gordon Research Conferences	ONC
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Lynda L. Uphouse, PhD	Texas Woman's University	IFCN
C. Fernando Valenzuela, MD, PhD	University of New Mexico	IFCN
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Cyma K. Van Petten, PhD	University of Arizona	BBBBP
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Clemencia M. Vargas, DDS, PhD	University of Maryland, Baltimore County	HOP
Douglas E. Vaughan, MD	Vanderbilt University	CVS
Donata Vercelli, MD, PhD	University of Arizona Health Sciences Center	IMM
Eric M. Verdin, MD	J. David Gladstone Institutes	AARR
Catherine M. Verfaillie, MD	University of Minnesota	CVS
C. Reynold Verret, PhD	University of The Sciences In Philadelphia	IMM
Andrew K. Vershon, PhD	Rutgers University	IDM
Barbara Vickrey, MD	University of California, Los Angeles	HOP
Jonathan D. Victor, MD, PhD	Weill Medical College of Cornell University	IFCN
Antonia M. Villarruel, PhD	University of Michigan at Ann Arbor	AARR
Inez Vincent, PhD	University of Washington	MDCN
George P. Vogler, PhD	Pennsylvania State University, University Park	HOP
David J. Volsky, PhD	Columbia University	AARR
Mary E. Vore, PhD	University of Kentucky	PPS
Kristiina Vuori, MD, PhD	Burnham Institute	CDF
David P. Wacker, PhD	University of Iowa	BBBBP
Denisa D. Wagner, PhD	CBR Institute For Biomedical Research	CVS, HEME
Kenneth R. Wagner, PhD	University of Cincinnati	BDCN
Richard K. Wagner, PhD	Florida State University	BBBBP
Frederic M. Waldman, MD, PhD	University of California, San Francisco	ONC
Christopher M. Walker, PhD	Children's Research Institute	AARR
Suzanne L. Walker, PhD	Princeton University	BPC
John T. Walkup, MD	Tourette Syndrome Association, Inc	BBBBP
Karina L. Walters, PhD	University of Washington	AARR
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Yu-Jui Y. Wan, PhD	University of Kansas Medical Center	ONC
Brian A. Wandell, PhD	Stanford University	IFCN
Chih-Lueh A. Wang, PhD	Boston Biomedical Research Institute	BPC
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Xiao-Fan Wang, PhD	Duke University Medical Center	CDF
Xiao-Jing Wang, MD, PhD	Brandeis University	IFCN
Altaf A. Wani, PhD	Ohio State University	PPS
Sharon L. Wardlaw, MD	Columbia University College of Physicians and Surgeons	ENR
Carl F. Ware, PhD	La Jolla Institute For Allergy and Immunolgy	IMM
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David H. Wasserman, PhD	Vanderbilt University	NMS

Rikki N. Waterhouse, PhD	Columbia University	SRB
Michael T. Watkins, MD	Massachusetts General Hospital	SRB
Paul A. Watkins, MD, PhD	Kennedy Krieger Research Institute, Inc	BCS
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Connie M. Weaver, PhD	Purdue University	NMS
David J. Weber, PhD	University of Maryland	BPC
Wei-Zen Wei, PhD	Wayne State University	IMM
Yen Wei, PhD	Drexel University	MSD
Detlef Weigel, PhD	Keystone Symposia	GNS
Martin A. Weinstock, MD, PhD	Rhode Island Hospital (Providence, RI)	HOP
Bruce S. Weir, PhD	North Carolina State University	GNS
John H. Weis, PhD	University of Utah	IMM
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David S. Weiss, PhD	University of Alabama at Birmingham	MDCN
Louis M. Weiss, MD	Albert Einstein College of Medicine, Yeshiva University	AARR
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John P. Welsh, PhD	Oregon Health and Science University	IFCN
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Gary L. Wenk, PhD	University of Arizona	BDCN
Susan R. Wente, PhD	Gordon Research Conferences	CDF
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Karin N. Westlund-High, PhD	University of Texas Medical Branch	IFCN
David W. Wetter, MD, PhD	University of Texas M.D. Anderson Cancer Center	HOP
Ruth R. Wexler, PhD	Bristol-Myers Company	BPC
Helene R. White, PhD	Rutgers University	RPHB
Stephen W. White, PhD	St. Jude Children's Research Hospital	BCS
Theodore C. White, PhD	Seattle Biomedical Research Institute	AARR
Donna S. Whitlon, PhD	Northwestern University	IFCN
Linda S. Wicker, PhD	University of Cambridge	IMM
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Josiah N. Wilcox, PhD	Emory University	CVS
David S. Wilkes, MD	Richard L. Roudebush Veterans Affairs Medical Center	PPS
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John T. Williams, PhD	Oregon Health and Science University	IFCN
Kandace J. Williams, PhD	Medical College of Ohio	ONC
Robert M. Williams, PhD	Colorado State University	BPC
James R. Williamson, PhD	Scripps Research Institute	BPC
Cheryl L. Willman, MD	University of New Mexico	CVS, HEME
Marsha Wills-Karp, PhD	Keystone Symposia	PPS
Donald A. Wilson, PhD	University of Oklahoma	IFCN
Charles S. Wingo, MD	University of Florida	MSD
Gina M. Wingood, ScD	Emory University	AARR
Fred M. Winston, PhD	Harvard University Medical School	CDF
Peter Wipf, PhD	University of Pittsburgh	BPC
Kimberlydawn Wisdom, MD	Henry Ford Health System	HOP
Katherine L. Wisner, MD	University of Pittsburgh	BBBP
James C. Witte, PhD	Clemson University	HOP
John S. Witte, PhD	University of California, San Francisco	HOP
Don M. Wojchowski, PhD	Maine Medical Center	CVS, HEME
Gebre Woldegiorgis, PhD	Oregon Health and Science University	NMS
Michael S. Wolin, PhD	New York Medical College	CVS
Fredric D. Wolinsky, PhD	University of Iowa	HOP
Steven M. Wolinsky, MD, PhD	Northwestern University	AARR
Albert J. Wong, MD	Thomas Jefferson University	ONC
Joseph K. Wong, MD	Veterans Medical Research Foundation, San Diego	AARR
Paul K. Y. Wong, PhD	University of Texas M.D. Anderson Cancer Center	AARR

Rachel O. Wong, PhD	Washington University School of Medicine	MDCN
Scott W. Wong, PhD	Oregon Health and Science University	AARR
W Gill Woodall, PhD	University of New Mexico, Albuquerque	HOP
Sarah A. Woodson, PhD	Johns Hopkins University	BCS
Catherine S. Woolley, PhD	Northwestern University	MDCN
William L. Woolverton, PhD	University of Mississippi Medical Center	IFCN
Daniel J. Wozniak, PhD	Wake Forest University Health Sciences	IDM
Anne L. Wright, PhD	University of Arizona	HOP
Eric R. Wright, PhD	Indiana University-Purdue University, Indianapolis	AARR
Jo Rae Wright, PhD	Duke University	PPS
William W. Wright, PhD	Johns Hopkins University	ENR
Anna H. Wu, MD, PhD	University of Southern California	HOP
Tzyy-Choou Wu, MD, PhD	Johns Hopkins University	IMM
Jean F. Wyman, PhD	University of Minnesota, Twin Cities	HOP
Zhengui Xia, PhD	University of Washington	MDCN
Yan Xu, PhD	University of Pittsburgh	BPC
Yu Yamaguchi, MD, PhD	Burnham Institute	BCS
Bryan K. Yamamoto, PhD	Boston University School of Medicine	IFCN
Ebenezer N. Yamoah, PhD	University of California	IFCN
Dajun Yang, MD, PhD	University of Michigan at Ann Arbor	ONC
Otto O. Yang, MD	University of California, Los Angeles	AARR
Victor C. Yang, PhD	University of Michigan at Ann Arbor	SRB
Atsuko Yatani, PhD	University of Medicine and Dentistry of New Jersey	CVS
Andrew M. Yeager, MD	University of Pittsburgh	ONC
Keith O. Yeates, PhD	Children's Research Institute	BBBP
Amy S. Yee, PhD	Tufts University, Boston	CDF
Timothy J. Yen, PhD	Institute For Cancer Research	CDF
David A. York, PhD	Louisiana State University	NMS
Ming Null You, MD, PhD	University of Alabama at Birmingham	ONC
James W. Young, MD	Sloan-Kettering Institute For Cancer Research	ONC
Dihua Yu, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Xiao-Fang Yu, DSc, MD	Johns Hopkins University	AARR
Jason X. Yuan, MD, PhD	University of California	PPS
Sarah Y. Yuan, MD, PhD	Texas A&M University Health Science Center	CVS
Wai-Kwan Alfred Yung, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Deborah A. Yurgelun-Todd, PhD	Mclean Hospital (Belmont, MA)	BDCN
Jerome A. Zack, PhD	University of California, Los Angeles	AARR
Richard A. Zager, MD	Fred Hutchinson Cancer Research Center	MSD
William N. Zagotta, PhD	University of Washington	MDCN
Mone Zaidi, DPH, MD	Mount Sinai School of Medicine	MSD
Michael R. Zalutsky, PhD	Duke University Medical Center	SRB
Maria L. Zapp, PhD	University of Massachusetts Medical School	AARR
Maria Cecilia Zea, PhD	George Washington University	AARR
Mark L. Zeidel, MD	University of Pittsburgh	MSD
Steven H. Zeisel, MD, PhD	University of North Carolina, Chapel Hill	NMS
Jonathan M. Zenilman, MD	Johns Hopkins University	AARR
Dong-Er Zhang, PhD	Scripps Research Institute	CVS, HEME
Heping Zhang, PhD	Yale University	HOP
Michael Q. Zhang, PhD	Cold Spring Harbor Laboratory	GNS
Hongyu Zhao, PhD	Yale University	HOP
Jing Zhou, MD, PhD	Brigham and Women's Hospital	MSD
Kai G. Zinn, PhD	California Institute of Technology	MDCN
Albert Zlotnik, PhD	Neurocrine Biosciences, Inc	IMM
Huda Y. Zoghbi, MD	Baylor College of Medicine	GNS
Irving H. Zucker, PhD	University of Nebraska Medical Center	CVS

**Reviewers who served as temporary reviewers on chartered study sections**

Lauren S. Aaronson, PhD	University of Kansas Medical Center	HOP
Cory Abate-Shen, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	CDF
Louise C. Abbott, DVM, PhD	Texas A&M University	BDCN
Camille N. Abboud, MD, PhD	University of Rochester	ONC
Hanna E. Abboud, MB, MD	University of Texas Health Science Center at San Antonio	CVS
Sarki A. Abdulkadir, MD, PhD	University of Alabama at Birmingham	ONC
Evan D. Abel, DPH	University of Utah	ENR
Ernesto V. Abel-Santos, PhD	Albert Einstein College of Medicine, Yeshiva University	BPC
Anissa Abi-Dargham, MD	Columbia University Health Science Center	IFCN
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Donald J. Abraham, MD, PhD	Allos Therapeutics, Inc	CVS
Dale R. Abrahamson, PhD	University of Kansas Medical Center	CVS
Thomas W. Abrams, PhD	University of Maryland Baltimore Professional School	MDCN
Naji N. Abumrad, MD	Vanderbilt University	AARR
Michael J. Acarregui, MD	University of Iowa	ENR
Michael J. Ackerman, MD, PhD	Mayo Clinic, Rochester	CVS
Steven J. Ackerman, PhD	University of Illinois at Chicago	PPS
Luis A. Actis, PhD	Miami University, Oxford	IDM
Leonard P. Adam, PhD	Boston Biomedical Research Institute	CVS
Michael W. Adams, PhD	University of Georgia	IDM
Peter D. Adams, PhD	Institute For Cancer Research	CDF
John P. Adelman, PhD	Oregon Health and Science University	MDCN
John Ademola, PhD	Biometrix Clinical Research	AARR
Adam J. Adler, PhD	University of Connecticut Health Center	IMM
Paul N. Adler, PhD	University of Virginia	GNS
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Anupam Agarwal, MD	University of Alabama at Birmingham	MSD
Krishna C. Agrawal, PhD	Tulane University	ONC
Lydia Aguilar-Bryan, MD, PhD	Keystone Symposia	NMS
Joseph M. Ahearn, MD, PhD	University of Pittsburgh	IMM
Dennis Allan Ahlburg, PhD	University of Minnesota	HOP
Khalil Ahmed, PhD	University of Minnesota	ENR, MSD
S. Ansar Ahmed, DVM, PhD	Virginia Polytechnic Institute and State University	PPS
John D. Aitchison, MD, PhD	Institute For Systems Biology	GNS
Myles H. Akabas, MD, PhD	Yeshiva University	MDCN, MSD
Metin Akay, PhD	Dartmouth College	SRB
Sheikh K. Alam, PhD	Riverside Research Institute	SRB
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Salvatore Albani, MD, PhD	University of California, San Diego	IMM
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Mark J. Alberts, MD	Northwestern University	HOP
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Lorraine M. Albritton, PhD	University of Tennessee Health Science Center	BCS
Maria L. Albuquerque, MD	Northwestern University	PPS
B. Rita Alevriadou, PhD	Ohio State University	SRB
Gene E. Alexander, PhD	Arizona State University	BDCN
Donna L. Algase, PhD	University of Michigan	HOP
Bradley E. Alger, PhD	University of Maryland	IFCN
Francis C. Ali-Osman, DPH	University of Texas M.D. Anderson Cancer Center	ONC
David Alland, MD	University of Medicine and Dentistry of New Jersey	AARR
Mary M. Allen, PhD	Wellesley College	IDM
Rando Allikmets, PhD	Columbia University	MDCN
David M. Allman, PhD	University of Pennsylvania	IMM
Alexander Almasan, PhD	Cleveland Clinic Foundation	ONC
Laura A. Almasy, PhD	Southwest Foundation For Biomedical Research	GNS
Wolfhard Almers, PhD	Oregon Health and Science University	CDF

Emad S. Alnemri, MD, PhD	Thomas Jefferson University	CDF
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Magdalena Alonso-Galicia, PhD	Merck Research Laboratories	CDF
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Marcus Altfeld, MD, PhD	Massachusetts General Hospital	AARR
Ronald D. Alvarez, MD	University of Alabama at Birmingham	ONC
Peter C. Amadio, MD	Mayo Clinic, Rochester	MSD
Victor R. Ambros, PhD	Dartmouth Medical School	GNS
Christine B. Ambrosone, PhD	Roswell Park Cancer Institute	HOP
Carina E. Ammala, PhD	GlaxoSmithKline, Inc	NMS
Howard I. Amols, PhD	Sloan-Kettering Institute For Cancer Research	ONC
Christopher I. Amos, PhD	University of Texas M.D. Anderson Cancer Center	BBBP, HOP
Sally A. Amundson	National Cancer Institute	ONC
Claudio Anasetti, MD	Fred Hutchinson Cancer Research Center	ONC
Deborah J. Anderson, PhD	Brigham and Women's Hospital	AARR
Karen S. Anderson, PhD	Yale University	AARR
Kathryn H. Anderson, PhD	Vanderbilt University	HOP
Vernon E. Anderson, PhD	Case Western Reserve University	BPC
Douglas L. Anderton, PhD	University of Massachusetts, Amherst	HOP
Michael P. Andre, PhD	Veterans Medical Research Foundation, San Diego	SRB
Matthew J. Androlewicz, PhD	H. Lee Moffitt Cancer Center and Research Institute	IMM
Irene L. Andrulis, PhD	Cancer Care Ontario	MSD
Andrey P. Anokhin, PhD	Washington University	BBBP
Aftab A. Ansari, PhD	Emory University School of Medicine	AARR
Toni M. Antalis, PhD	American National Red Cross	CVS
Rustom N. Antia, PhD	Emory University	IMM
Eva S. Anton, PhD	Pennsylvania State University, University Park	MDCN
Toni C. Antonucci, PhD	University of Michigan	RPHB
Veena B. Antony, MD	University of Florida	AARR, PPS
Piero Anversa, MD	New York Medical College	CVS
Antonio Anzueto, MD	University of Texas Health Science Center at San Antonio	PPS
Dean R. Appling, PhD	University of Texas at Austin	NMS
Robert H. Arch, PhD	Washington University	IMM, PPS
Moshe Arditi, MD	Cedars-Sinai Medical Center	IMM
Manuel Ares, PhD	University of California, Santa Cruz	CDF
Bruce A. Armitage, PhD	Carnegie Mellon University	BPC
Donna K. Arnett, MD, PhD	University of Minnesota, Twin Cities	HOP
Amy F.T. Arnsten, DPH, PhD	Yale University	IFCN
Jaroslav A. Aronowski, PhD	University of Texas Health Science Center, Houston	BDCN
Edgar A. Arriaga, PhD	University of Minnesota	IMM
Carlos L. Arteaga, MD	Vanderbilt University	ONC
Adam S. Asch, MD	Weill Medical College of Cornell University	CVS
Michael Aschner, PhD	Wake Forest University	IFCN
F. Gregory Ashby, PhD	University of California	BBBP
Muhammad Ashraf, PhD	University of Cincinnati Medical Center	CVS
Richard K. Assoian, PhD	University of Pennsylvania	BCS
Michael L. Atchison, PhD	University of Pennsylvania	IMM
Gerard A. Ateshian, PhD	Columbia University	MSD
Mohammad Athar, PhD	Columbia University College of Physicians and Surgeons	ONC
Sally S. Atherton, PhD	Medical College of Georgia	IDM
David N. Atkinson, PhD	Boston University School of Medicine	BPC
John P. Atkinson, MD	Washington University School of Medicine	CVS
Simon J. Atkinson, PhD	Indiana University-Purdue University, Indianapolis	BCS
Alan D. Attie, PhD	University of Wisconsin	NMS
Walter J. Atwood, PhD	Brown University	IDM
Jessie L. Au, MD	Ohio State University	ONC
Jeffrey Aube, PhD	University of Kansas, Lawrence	BPC
Hugh J. Auchincloss, MD	Massachusetts General Hospital	SRB
Gerald J. Audesirk, PhD	University of Colorado	IFCN
Leonard H. Augenlicht, PhD	Montefiore Medical Center	ONC

Avery E. August, PhD	Pennsylvania State University	PPS
Thomas M. Aune, PhD	Vanderbilt University	IMM
Garth E. Austin, MD, PhD	Atlanta Veterans Affairs Medical Center	MSD
Rachel N. Austin, PhD	Bates College	BPC
Frederick M. Ausubel, PhD	Massachusetts General Hospital	CDF
Michael V. Autieri, PhD	Temple University	CVS
Maria L. Avantagegiati, MD	Georgetown University	ONC
Leon B. Avery, PhD	University of Texas Southwestern Medical Center at Dallas	GNS
Hava K. Avraham, PhD	Beth Israel Deaconess Medical Center	CVS, HEME
Tak Y. Aw, PhD	Louisiana State University	NMS, PPS
Sanjay Awasthi, MD	University of Texas at Arlington	ONC
Alfred Ayala, PhD	Rhode Island Hospital (Providence, RI)	SRB
Donald E. Ayer, PhD	University of Utah	CDF
Peter B. Bach, MD	Sloan-Kettering Institute For Cancer Research	HOP
Alexander A. Bachmanov, DVM, PhD	Monell Chemical Senses Center	GNS
Jonathan M. Backer, MD	Albert Einstein College of Medicine, Yeshiva University	BCS
Peter H. Backx, DVM, PhD	University of Toronto	CVS
Sid Bacon, PhD	Arizona State University	IFCN
David M. Bader, MD, PhD	Vanderbilt University	CVS
Terry A. Badger, PhD	University of Arizona	AARR
Stephen F. Badylak, DVM, MD	University of Pittsburgh	MDCN
Rebecca S. Bahn, MD	Mayo Clinic, Rochester	ENR
Wadie F. Bahou, MD	State University of New York	HEME
Herwig Baier, PhD	University of California, San Francisco	MDCN
Jacques G. Baillargeon, PhD	University of Texas Health Science Center at San Antonio	AARR
Joel D. Baines, PhD, VMD	Cornell University, Ithaca	IDM
Andreja Bakac, PhD	Iowa State University	BPC
Anthony J. Baker, PhD	Northern California Institute For Research and Education	CVS
David C. Baker, MD, PhD	University of Tennessee, Knoxville	BPC
James R. Baker, MD	University of Michigan at Ann Arbor	ENR
John E. Baker, PhD	Medical College of Wisconsin	SRB
Lisa E. Baker, PhD	Western Michigan University	BBBP
Nicholas E. Baker, PhD	Albert Einstein College of Medicine, Yeshiva University	MDCN
Susan C. Baker, PhD	Loyola University Medical Center	IDM
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Sathyamangala Balasubramanian, PhD	State University of New York at Buffalo	HEME
Edith D. Balbach, PhD	Tufts University, Medford	HOP
Hector G. Balcazar, PhD	University of North Texas	HOP
William E. Balch, PhD	Scripps Research Institute	CDF
Albert S. Baldwin, MD, PhD	University of North Carolina, Chapel Hill	IMM
Dare Ann Baldwin, PhD	University of Oregon	BBBP
Allen E. Bale, MD	Yale University School of Medicine	ONC
Sherri J. Bale, MD, PhD	National Institute of Arthritis and Musculoskeletal and Skin Diseases	GNS
Gary Balian, PhD	University of Virginia	MSD
Steven P. Balk, MD, PhD	Beth Israel Deaconess Medical Center	ENR, IMM
Dean W. Ballard, PhD	Vanderbilt University	IMM
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Nazzareno A. Ballatori, PhD	Mount Desert Island Biological Lab	PPS
R. Tracy Ballock, MD	Cleveland Clinic Foundation	MSD
Peter D. Balsam, PhD	Barnard College	BBBP
James A. Balschi, PhD	Brigham and Women's Hospital	CVS
Joseph P. Balthasar, PhD	State University of New York at Buffalo	CVS
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Emmalee S. Bandstra, MD	University of Miami	BBBP
Sushanta K. Banerjee, PhD	Veterans Affairs Medical Center	ONC
James D. Bangs, PhD	University of Wisconsin, Madison	IDM
Martin S. Banks, PhD	University of California, Berkeley	BBBP
Daniel T. Baran, MD	Merck and Company, Inc	MSD
Anne M. Baranger, PhD	Wesleyan University	BPC

Helen Barbas, PhD	Boston University, Charles River Campus	IFCN
Glen N. Barber, PhD	University of Miami School of Medicine	IDM
Randall L. Barbour, PhD	State University of New York Downstate Medical Center	SRB
Mary-Helen H. Barcellos-Hoff, PhD	University of California Lawrence Berkeley National Laboratory	ONC
James Bardwell, PhD	University of Michigan at Ann Arbor	BPC
Menashe Bar-Eli, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Ralph S. Baric, PhD	University of North Carolina, Chapel Hill	GNS
Jane E. Barker, PhD	Jackson Laboratory	CVS
Eric W. Barklis, PhD	Oregon Health and Science University	IDM
Robert B. Barlow, PhD	State University of New York Upstate Medical University	IFCN
Charles K. Barlowe, PhD	Dartmouth College	CDF
John A. Barnard, MD	Children's Research Institute	PPS
Scott R. Barnum, PhD	University of Alabama at Birmingham	MDCN
Douglas F. Barofsky, PhD	Oregon State University	ONC
Alain D. Baron, MD	Indiana University-Purdue University, Indianapolis	NMS
John A. Baron, MD	Dartmouth College	HOP
Terrence A. Barrett, MD	Northwestern University Medical School	PPS
Michael A. Barry, PhD	Baylor College of Medicine	CVS
Lawrence W. Barsalou,	University of Chicago	BBBP
Gregory S. Barsh, MD, PhD	Stanford University	GNS
Richard P. Barth, PhD	University of North Carolina	RPHB
Marisa S. Bartolomei, PhD	University of Pennsylvania	GNS
Jennifer K. Barton, PhD	University of Arizona	MSD, SRB
Michelle C. Barton, PhD	University of Texas M.D. Anderson Cancer Center	BCS
Carol B. Basbaum, PhD	University of California, San Francisco	PPS
Rebecca Bascom, MD, PhD	Johns Hopkins University	HOP
Andrew H. Bass, PhD, ScD	Cornell University	IFCN
Gary J. Bassell, PhD	Albert Einstein College of Medicine, Yeshiva University	MDCN
Peter J. Basser, MD, PhD	National Institute of Child Health and Human Development	MSD
Anne S. Bassett, MD	University of Toronto	GNS
Susan S. Bassett, PhD	Johns Hopkins University	HOP
Elena M. Bastida, PhD	University of Texas, Pan American	HOP
Amit Basu, PhD	Brown University	BPC
Ashis K. Basu, PhD	University of Connecticut, Storrs	ONC
Erik A. Bateman, PhD	University of Vermont	IDM
John E. Bates, PhD	Indiana University, Bloomington	BBBP
Marsha E. Bates, PhD	Rutgers University	BBBP
Surrinder Batra, PhD	University of Nebraska Medical Center	ONC
Lance O. Bauer, PhD	University of Connecticut Health Center	BBBP
Patricia J. Bauer, PhD	University of Minnesota, Twin Cities	BBBP
Shari R. Baum, PhD	McGill University	BBBP
Dale E. Bauman, PhD	Cornell University	ENR
B. Timothy Baxter, MD	University of Nebraska	SRB
Suzi D. Baxter, PhD	University of South Carolina at Columbia	HOP
Barbara M. Bayer, PhD	Georgetown University	AARR, BBBP
Gordon C. Baylis, DPH, DVM	University of South Carolina	IFCN
Frank D. Bean, PhD	Russell Sage Foundation	HOP
Mark F. Bear, PhD	Massachusetts Institute of Technology	IFCN
G. Peter Beardsley, MD, PhD	Scripps Research Institute	ONC
Cynthia F. Bearer, MD, PhD	Case Western Reserve University	IFCN
Paul Beattie, PhD	University of South Carolina	MSD
Terri H. Beaty, PhD	Johns Hopkins University	GNS
Alain Beaudet, MD, PhD	McGill University	MDCN
Fred Beauvais, PhD	Colorado State University	HOP
Antoine Bechara, MD, PhD	University of Iowa	BBBP
Joan E. Bechtold, PhD	Minneapolis Medical Research Foundation, Inc	MSD
Kenneth H. Beck, PhD	University of Maryland, College Park	HOP
Melinda A. Beck, PhD	University of North Carolina	NMS
Dorothea Becker, MB	Children's Hospital, Pittsburgh	ONC
Howard C. Becker, PhD	Medical University of South Carolina	IFCN

Jeffrey M. Becker, PhD	University of Tennessee	IDM
Mary A. Bedell, PhD	University of Georgia	ENR
Atul Bedi, MD	Johns Hopkins University	ONC
Michael F. Beers, MD	University of Pennsylvania	PPS
Amer A. Beg, PhD	Columbia University	IMM
Michael M. Behbehani, PhD	University of Cincinnati	MDCN
Jere R. Behrman, PhD	University of Pennsylvania	HOP
Marlene Behrmann, PhD	Carnegie Mellon University	BBBBP
Deborah C. Beidel, PhD	University of Maryland	BBBBP
William H. Beierwaltes, PhD	Henry Ford Hospital	CVS
Amy M. Bejsovec, PhD	Duke University	CDF
Alexey M. Belkin, PhD	American National Red Cross	MDCN
David C. Bell, PhD	Affiliated Systems Corporation	AARR
Thomas W. Bell, PhD	University of Nevada, Reno	BPC
Hugo J. Bellen, DVM, PhD	Howard Hughes Medical Institute	MDCN
Vivian M. Bellofatto, PhD	University of Medicine and Dentistry of New Jersey	IDM
Deborah Bell-Pedersen, PhD	Texas A&M University System	MDCN
Andrew S. Belmont, MD, PhD	University of Illinois	CDF
Michael J. Belyea, PhD	University of North Carolina	CDF
Larry S. Benardo, MD, PhD	State University of New York Downstate Medical Center	IFCN
Jeffrey R. Bender, MD	Yale University	SRB
Welcome W. Bender, PhD	Harvard University	GNS
Shamgar Ben-Eliyahu, PhD	Tel Aviv University	BBBBP
Philip N. Benfey, PhD	Duke University	CDF
Paul J. Benkeser, PhD	Georgia Institute of Technology	SRB
Beth Bennett, PhD	University of Colorado	BDCN
Charles L. Bennett, MD, PhD	Duke University	HOP
Joel S. Bennett, MD, PhD	University of Pennsylvania	CVS
Andrew F. Bent, PhD	University of Wisconsin	GNS
David L. Bentley, PhD	University of Colorado Health Sciences Center	CDF
William E. Bentley, PhD	University of Maryland Biotechnology Institute	BPC
Gerold Bepler, MD, PhD	H. Lee Moffitt Cancer Center and Research Institute	ONC
David N. Beratan, PhD	Duke University	BPC
David A. Bereiter, PhD	Rhode Island Hospital (Providence, RI)	IFCN
Sheri A. Berenbaum, PhD	Pennsylvania State University	RPHB
Jeremy M. Berg, PhD	Energetic Genomics Corporation	BPC
Leslie J. Berg, MD, PhD	University of Massachusetts Medical School, Worcester	IMM
Jeffrey M. Bergelson, MD	Children's Hospital of Philadelphia	IDM
Cindy S. Bergeman, PhD	University of Notre Dame	HOP
Carole L. Berger, EdD, PhD	Yale University School of Medicine	ONC
Joanne E. Berger-Sweeney, PhD	Society For Neuroscience	IFCN
Dwight E. Bergles, PhD	Johns Hopkins University	MDCN
Lawrence W. Bergman, PhD	Drexel University	IDM
Cornelia C. Bergmann, PhD	University of Southern California	IDM
Stephen C. Bergmeier, PhD	Montana Pharmaceuticals, Inc	BPC
Hans J. Berkel, MD, PhD	Wright State University	HOP
Luiz E. Bermudez, MD	Oregon State University	AARR
Gregory S. Berns, MD, PhD	Emory University	IFCN
Jonine L. Bernstein, PhD	Mount Sinai School of Medicine	HOP
Wade H. Berrettini, MD, PhD	University of Pennsylvania	GNS
Charles C. Berry, PhD	University of California, San Diego	ONC
David A. Berry, PhD	University of California, Los Angeles	BBBBP
Paul J. Bertics, PhD	University of Wisconsin Medical School	PPS
Michael T. Berton, PhD	University of Texas Health Science Center at San Antonio	IMM
Catherine T. Best, PhD	Haskins Laboratories	BBBBP
Cynthia L. Bethea, PhD	Oregon Health and Science University	ENR
David L. Beveridge, PhD	Wesleyan University	BPC
Eric C. Beyer, MD, PhD	University of Chicago	CDF
Kapil N. Bhalla, MD	H. Lee Moffitt Cancer Center and Research Institute	ONC
Shalender Bhasin, MD	University of California	AARR

Jayanta Bhattacharya, MD, PhD	Stanford University	HOP
Lynne M. Bianchi, PhD	Oberlin College	CDF
Jean M. Bidlack, PhD	University of Rochester	IFCN
Paul D. Bieniasz, PhD	Aaron Diamond Aids Research Center	AARR
Andrew A. Biewener, PhD	Concord Field Station, Harvard University	MSD
Irving J. Bigio, PhD	Boston University, Charles River Campus	SRB
Jeffrey R. Binder, MD	Medical College of Wisconsin	IFCN
David E. Birk, PhD	Thomas Jefferson University	MSD
Bruce W. Birren, PhD	Whitehead Institute Center For Genome Research	GNS
Gerald E. Bisgard, DVM, PhD	University of Wisconsin	PPS
Douglas K. Bishop, PhD	University of Chicago	BCS
Gail A. Bishop, PhD	University of Iowa	IMM
Montgomery D. Bissell, MD	University of California	IDM
John J. Bissler, MD	Children's Hospital Medical Center, Cincinnati	MSD
Edward O. Bixler, PhD	Pennsylvania State University Hershey Medical Center	HOP
Pamela J. Bjorkman, PhD	California Institute of Technology	IMM
Marcia A. Blackman, PhD	Trudeau Institute, Inc	IDM
Arthur W. Blackstock, MD	Wake Forest University Health Sciences	ONC
Anne Blackwood-Chirchir, MD	University of Pennsylvania	HOP
John A. Blaho, MD, PhD	Mount Sinai School of Medicine	IDM
Clancy B. Blair, PhD	Pennsylvania State University	BBBP
Randolph R. Blake, PhD	Vanderbilt University	IFCN
John S. Blanchard, PhD	Yeshiva University	BPC
Elizabeth P. Blankenhorn, PhD	Drexel University College of Medicine	GNS, IMM
Ronald G. Blasberg, MD	Sloan-Kettering Institute For Cancer Research	SRB
Lothar A. Blatter, MD	Loyola University, Chicago	CVS
Bruce R. Blazar, MD	University of Minnesota	ONC
Thomas P. Bleck, MD	University of Virginia, Charlottesville	HOP
Arnold S. Bleiweis, PhD	University of Florida	MSD
Robert H. Blessing, PhD	Hauptman-Woodward Medical Research Institute	BPC
James B. Bliska, PhD	State University of New York at Stony Brook	IMM
David A. Blizard, PhD	Pennsylvania State University	IFCN
Matthew M. Bliziotis, MD	Oregon Health and Science University	MSD
Kerry S. Bloom, PhD	University of North Carolina	CDF
Daniel Bluestein, PhD	State University of New York at Stony Brook	SRB
Mark S. Blumberg, PhD	University of Iowa	BBBP
Richard S. Blumberg, MD	Brigham and Women's Hospital	IMM
Thomas Blumenthal, PhD	University of Colorado Health Sciences Center	CDF
Kendall J. Blumer, PhD	Gordon Research Conferences	BCS
Dana F. Boatman, PhD	Johns Hopkins University	IFCN
Janet K. Bobo, PhD	Battelle Centers/Public Health Research and Evaluation	HOP
Paul E. Bock, PhD	Vanderbilt University	CVS, HEME
Eric Boder, PhD	University of Pennsylvania	IMM
David M. Bodine, PhD	National Human Genome Research Institute	CVS, HEME
Jef D. Boeke, DSc, PhD	Johns Hopkins University School of Medicine	CDF
Rob Boer, PhD	Rand Corporation	HOP
Bradley Boeve, MD	Mayo Clinic	BDCN
Oliver Bogler, PhD	Henry Ford Health System	ONC
Harold Glenn Bohlen, PhD	Indiana University	CVS
Lawrence H. Boise, PhD	University of Miami School of Medicine	ONC
Lizann Bolinger, MD, PhD	University of Iowa	SRB
W. Kline Bolton, MD	University of Virginia School of Medicine	CVS
Charlotte M. Boney, MD	Rhode Island Hospital (Providence, RI)	ENR
Nancy M. Bonini, PhD	Howard Hughes Medical Institute	MSD
Robert M. Bookchin, MD	Yeshiva University	HEME
Richard J. Bookman, PhD	University of Miami	MDCN
John M. Boone, PhD	University of California, Davis Medical Center	SRB
Frank W. Booth, PhD	University of Missouri	CVS
David A. Boothman, PhD	Case Western Reserve University	ONC
Thomas K. Borg, PhD	University of South Carolina	CVS

Babak Borhan, PhD	Michigan State University	BPC
Joan C. Borod, PhD	Queens College	BBBBP
Zea Borok, MB, MD	University of Southern California	PPS
Harvey S. Borovetz, PhD	University of Pittsburgh	SRB
James A. Borowiec, PhD	New York University School of Medicine	IDM
Adele L. Boskey, PhD	Hospital For Special Surgery	MSD
Andrea Bottaro, PhD	University of Rochester Medical Center	IMM
Erwin P. Bottinger, MD	Albert Einstein College of Medicine, Yeshiva University	MSD
Godfrey R. Bourne, PhD	University of Missouri, St. Louis	BBBBP
H. G. Bouwer, PhD	Providence Portland Medical Center	AARR
Donald W. Bowden, PhD	Wake Forest University Health Sciences	NMS
George H.W. Bowden, PhD	University of Manitoba	MSD
James U. Bowie, PhD	University of California, Los Angeles	BCS
Michael K. Bowman, PhD	Battelle Pacific Northwest Laboratories	BPC
Brendan F. Boyce, MD	University of Rochester Medical Center	MSD
Joshua A. Boyce, MD	Brigham and Women's Hospital	IMM
Steven T. Boyce, PhD	Cutanogen Corporation	SRB
Neal R. Boyd, EdD, PhD	George Washington University	HOP
Cherrie B. Boyer, PhD	University of California, San Francisco	HOP
David W. Boyle, MD	Indiana University School of Medicine	ENR
Geoffrey M. Boynton, PhD	Salk Institute For Biological Studies	IFCN
Leslie A. Braby, PhD	Texas A&M University	ONC
Carrie J. Braden, PhD	University of Texas Health Science Center at San Antonio	HOP
Linda M. Bradley, PhD	Sidney Kimmel Cancer Center	IMM
Michael E. Bradley, PhD	Creighton University	ENR
Scott T. Brady, PhD	University of Illinois at Chicago	BPC, MDCN
Susann M. Brady-Kalnay, PhD	Case Western Reserve University	MDCN
Marc N. Branch, PhD	University of Florida	BBBBP
Stacy Branch, DVM, PhD	North Carolina State University, Raleigh	MSD
Michael E. Brandt, PhD	University of Texas Health Science Center	BBBBP
Mark L. Brantly, MD	University of Florida College of Medicine	PPS
Douglas E. Brash, PhD	Yale University	CDF
Lawrence F. Brass, MD, PhD	University of Pennsylvania	CVS
Michael G. Brattain, PhD	Roswell Park Cancer Institute	ONC
Jonathan Braun, MD, PhD	University of California, Los Angeles	IMM
Sanford L. Braver, PhD	Arizona State University	HOP
Todd S. Braver, PhD	Washington University	IFCN
Molly M. Bray, PhD	University of Texas Health Science Center, Houston	MSD
Joseph E. Brayden, PhD	University of Vermont College of Medicine	CVS
Gerda Breitwieser, PhD	Syracuse University	MDCN
J. Douglas Bremner, MD	Emory University	BBBBP
David N. Brems, PhD	Amgen Inc	BPC
Kara L. Bren, PhD	University of Rochester	BPC
Patrick J. Brennwald, PhD	University of North Carolina	CDF
Eliot A. Brenowitz, PhD	University of Washington	IFCN
Michael D. Brenowitz, PhD	Yeshiva University	BPC
Gregory A. Brent, MD	University of California, Los Angeles	ENR
Emery H. Bresnick, PhD	University of Wisconsin, Madison	HEME
Walter A. Bretz, DDS, DPH	University of Pittsburgh	MSD
Gary A. Brewer, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	CDF, CVS
Larry Brewer, PhD	Lawrence Livermore National Laboratory	BPC
James M. Briggs, PhD	University of Houston	AARR
Steven J. Brill, PhD	Rutgers University	BCS
Peter R. Brink, PhD	State University of New York at Stony Brook	CVS
Margo A. Brinton, PhD	Georgia State University	IDM
James D. Bristow, MD	University of California, San Francisco	CVS
William J. Britt, MD, PhD	University of Alabama at Birmingham	IDM
Gary M. Brittenham, MD	Columbia University College of Physicians and Surgeons	HEME
James R. Broach, PhD	Princeton University	GNS
Arthur E. Broadus, MD, PhD	Yale University School of Medicine	MSD

Arnold R. Brody, PhD	Tulane University School of Medicine	PPS
Jerome S. Brody, MD	Boston University	PPS
Karl W. Broman, PhD	Marshfield Clinic	GNS
Jonathan S. Bromberg, MD, PhD	Mount Sinai School of Medicine	IMM
Charles L. Brooks, PhD	Scripps Research Institute	BPC
George A. Brooks, PhD	University of California, Berkeley	NMS
Arthur D. Broom, PhD	University of Utah	AARR
Frank C. Brosius, MD	University of Michigan at Ann Arbor	CVS
Emile M. Brouwers, PhD	Baylor College of Medicine	BBBP
Danny L. Brower, PhD	University of Arizona	BCS
Candace S. Brown	University of Tennessee	HOP
Carolyn J. Brown, PhD	University of British Columbia	GNS
Jay C. Brown, PhD	University of Virginia	IDM
Kevin Brown, MD	National Institutes of Health	IDM
Larry K. Brown, MD	Rhode Island Hospital (Providence, RI)	AARR
Powel H. Brown, MD, PhD	Baylor College of Medicine	ONC
Robert H. Brown, DPH, MD	Massachusetts General Hospital	CDF
Suse B. Brojde, PhD	New York University	ONC
Steven S. Broyles, PhD	Purdue University	IDM
Richard H. Bruce, PhD	Xerox Corporation	BPC
Maggie Bruck, PhD	Johns Hopkins University	BBBP
Carlo Brugnara, MD	Children's Hospital, Boston	CVS
Peter C. Brunjes, PhD	University of Virginia	MDCN
Thomas C. Brunold, PhD	University of Wisconsin	BPC
Angela D. Bryan, PhD	University of Colorado at Boulder	AARR
Joseph Bryan, PhD	Baylor College of Medicine	ENR
Amanda Cordelia Bryant-Friedrich, PhD	Oakland University	ONC
Elizabeth C. Bryda, PhD	Marshall University	CVS
Thomas S. Buchanan, MD, PhD	University of Delaware	MSD
Timothy G. Buchman, MD, PhD	Washington University	SRB
Donald J. Buchsbaum, PhD	University of Alabama School of Medicine	IMM
Kari J. Buck, PhD	Oregon Health and Science University	IFCN
Ross W. Buck, PhD	University of Connecticut	BBBP
R. Pat Bucy, MD, PhD	University of Alabama at Birmingham	SRB
Ralph C. Budd, MD	University of Vermont	IMM
Vladimir G. Budker, PhD	Wisconsin University	BCS
Stephen L. Buka, DSc, MD	Harvard University School of Public Health	RPHB
Richard D. Bukoski, MD, PhD	Biomedical Biotechnology Research Institute	CVS
Michael I. Bukrinsky, MD, PhD	George Washington University	AARR
James J. Bull, PhD	University of Texas	GNS
Robert Mark L. Buller, PhD	St. Louis University	IDM
Elizabeth Bullitt, MD	University of North Carolina	SRB
Bruce A. Bunnell, PhD	Tulane University	AARR
Nigel W. Bunnett, PhD	University of California, San Francisco	PPS
Stephen Buratowski, PhD	Harvard University Medical School	CDF
Peter M. Burgers, PhD	Washington University	BCS, CDF
James E. Burgess, MD	Fairfax Hospital	SRB
Robert C. Burghardt, PhD	Texas A&M University System	ENR
Brian Burke, PhD	University of Florida	CDF
Daniel J. Burke, PhD	University of Virginia	CDF
A. W. Burks, MD	Duke University	IMM
Margit Burmeister, PhD	University of Michigan at Ann Arbor	GNS
Elizabeth Burnside, MD	University of Wisconsin, Madison	SRB
Dennis R. Burton, PhD	Scripps Research Institute	AARR
Gregory F. Burton, PhD	Brigham Young University	AARR
Michael P. Busch, MD, PhD	Blood Centers of The Pacific	CVS, HOP
Andrew J. Bush, PhD	University of Tennessee	HOP
Robin M. Bush, PhD	University of California, Irvine	GNS
John H. Bushweller, PhD	University of Virginia Health Sciences Center	HEME
Michael Bustin, PhD	National Cancer Institute	CDF

Alison Butler, PhD	University of California, Santa Barbara	BPC
Peter C. Butler, MD	University of Southern California	NMS
Robert E. Buxbaum, PhD	REB Research and Consulting Co	PPS
John H. Byrne, PhD	University of Texas Health Science Center, Houston	MDCN
David J. Bzik, PhD	Dartmouth College	AARR
Roberto E. L. Cabeza, PhD	Duke University	BBBP
David S. Cafiso, PhD	University of Virginia	BPC
Ross L. Cagan, PhD	Washington University	CDF
Gregory M. Cahill, PhD	University of Houston	MDCN
Peter M. Cala, PhD	University of California, Davis	CDF
Richard A. Calderone, PhD	Georgetown University	AARR
Joseph V. Califano, DDS, PhD	Virginia Commonwealth University	MSD
Robert Callahan, PhD	National Cancer Institute	GNS
Edward M. Callaway, PhD	Salk Institute For Biological Studies	IFCN
Robert H. Callender, PhD	Yeshiva University	BPC
Sandra L. Calvert,	Georgetown University	RPHB
Judy L. Cameron, PhD	Oregon Health and Science University	BBBP
Arthur Cammers-Goodwin, PhD	University of Kentucky	BPC
David A. Campbell, PhD	University of California, Los Angeles	IDM
Kenneth J. Campbell, PhD	Children's Hospital Medical Center, Cincinnati	MDCN
Carmen C. Canavier, PhD	University of New Orleans	IFCN
William G. Cance, MD	University of North Carolina	ONC
Huyen L. Cao, MD	Public Health Foundation Enterprises	AARR
Xu Cao, PhD	University of Alabama at Birmingham	MSD
Blanche C. Capel, PhD	Duke University Medical Center	CVS
Richard M. Caprioli, PhD	Vanderbilt University	PPS
John P. Caradonna, PhD	Boston University, Charles River Campus	BPC
Salvatore J. Caradonna, PhD	University of Medicine and Dentistry of New Jersey	ONC
Maren Carbon, MD	North Shore University Hospital	MSD
David E. Card, PhD	National Bureau of Economic Research	HOP
Clifton M. Carey, PhD	American Dental Association	MSD
David J. Carey, PhD	Weis Center For Research-Geisinger Clinic	MDCN
Gregory G. Carey, PhD	University of Colorado	HOP
Nadia Carlesso, MD, PhD	Massachusetts General Hospital	ONC
David W. Carley, PhD	University of Illinois at Chicago	PPS
Gustavo Carlo, PhD	University of Nebraska, Lincoln	RPHB
David S. Carlson, PhD	Baylor Collge of Dentistry	MSD
Gerald M. Carlson, PhD	University of Kansas Medical Center	NMS
Pamela K. Carmines, PhD	University of Nebraska Medical Center	MSD
Marc G. Caron, PhD	Duke University	MDCN
Daniel W. Carr, PhD	Oregon Health and Science University	ENR
Lucinda G. Carr, PhD	University of Indiana	IFCN
Nancy Carrasco, MD	Albert Einstein College of Medicine, Yeshiva University	ONC
Dana Carroll, PhD	University of Utah School of Medicine	BCS
Michael C. Carroll, PhD	CBR Institute For Biomedical Research	IMM
Shannon S. Carson, MD	University of North Carolina, Chapel Hill	HOP
Cameron S. Carter, MD, PhD	University of California, Davis	IFCN
Rich G. Carter, PhD	Oregon State University	BPC
Walter H. Carter, PhD	Virginia Commonwealth University	AARR
Richard W. Carthew, PhD	Northwestern University	GNS
Rosalind D. Cartwright, PhD	Rush-Presbyterian-St. Luke's Medical Center	BBBP
Wayne E. Carver, PhD	University of South Carolina	CVS
Vivien A. Casagrande, PhD	Vanderbilt University	IFCN
Thomas L. Casavant, PhD	University of Iowa	GNS
Douglas L. Case, PhD	Wake Forest University	HOP
Patricia Case, ScD	Harvard University Medical School	AARR, HOP
B.J. Casey, PhD	Weill Medical College of Cornell University	BBBP
Diana Casper, PhD	Montefiore Medical Center	BDCN
Daniel F. Catanzaro, PhD	Weill Medical College of Cornell University	CVS
Michael A. Caudy, PhD	Winifred Masterson Burke Medical Research Institute	MDCN

George H. Caughey, MD	University of California, San Francisco	PPS
John Cavanagh, PhD	North Carolina State University	BPC
Jose E. Cavazos, MD, PhD	University of Texas Health Science Center	BDCN
Verne S. Caviness, MD, PhD	Massachusetts General Hospital	MDCN
Esteban Celis, MD, PhD	Mayo Clinic, Rochester	IMM
James R. Cerhan, MD, PhD	Mayo Clinic, Rochester	HOP
Charles L. Chaffin, PhD	Medical College of Georgia	ENR
Yang Chai, DDS, PhD	Gordon Research Conferences	MSD
J. Richard Chaillet, MD, PhD	Children's Hospital, Pittsburgh	GNS
Jonathan B. Chaires, PhD	University of Mississippi	BPC
Dev P. Chakraborty, PhD	University of Pittsburgh	SRB
Janice E. Chambers, PhD	Mississippi State University	PPS
Thomas J. Chambers, MD	St. Louis University	IDM
Timothy C. Chambers, PhD	University of Arkansas For Medical Sciences	ONC
Heang-Ping Chan, PhD	University of Michigan at Ann Arbor	SRB
Jarvis T. Chan, DDS, PhD	University of Texas Dental Branch	MSD
Britton Chance, DSc, MD	University of Pennsylvania	BBBP
Nalini Chandar, PhD	Midwestern University	ONC
Navdeep S. Chandel, PhD	Northwestern University	PPS
Vicki L. Chandler, PhD	University of Arizona	CDF
Cheong-Hee Chang, PhD	Indiana University-Purdue University, Indianapolis	IMM
Eugene B. Chang, MD, PhD	University of Chicago	PPS
Geoffrey A. Chang, PhD	Scripps Research Institute	MDCN
Sulie L. Chang, PhD	Seton Hall University	AARR
Mark W. Chapleau, PhD	Federation of American Societies For Experimental Biology	CVS
Richard C. Chapman, PhD	University of Chicago	BBBP
Richard J. Chappell, PhD	University of Wisconsin, Madison	ONC
Israel F. Charo, MD, PhD	J. David Gladstone Institutes	CVS
Maureen J. Charron, PhD	Albert Einstein College of Medicine, Yeshiva University	NMS
Gary A. Chase, PhD	Georgetown University Medical Center	GNS
N. Dennis Chasteen, PhD	University of New Hampshire	BPC
Anjan K. Chatterjee, MD	University of Pennsylvania	BDCN
Saswati Chatterjee, PhD	City of Hope/Beckman Research Institute	BCS
Vincent Chau, MD, PhD	Pennsylvania State University Hershey Medical Center	BCS, CDF
Charles Chavkin, PhD	University of Washington	MDCN
Chang Chawnshang, PhD	University of Rochester	ENR
Kenneth Chay, PhD	National Bureau of Economic Research	HOP
Thomas E. Cheatham, PhD	University of Utah	BPC
Dennis J. Cheek, PhD	University of North Carolina, Chapel Hill	HOP
William P. Cheevers, PhD	Washington State University	IDM
Farid F. Chehab, PhD	University of California, San Francisco	ENR
Srikumar P. Chellapan, PhD	H. Lee Moffitt Cancer Center and Research Institute	ONC
John J. Chelonis, PhD	University of Arkansas at Little Rock	BBBP
Changyi J. Chen, MD, PhD	Baylor College of Medicine	AARR, CVS
David J.C. Chen, MD, PhD	Lawrence Berkeley National Laboratory	ONC
Jianzhu Chen, PhD	Massachusetts Institute of Technology	IDM, IMM
Junghuei Chen, PhD	University of Delaware	BPC
Shu-Hsia Chen, PhD	Mount Sinai School of Medicine	IMM
Suzie Chen, PhD	Rutgers University	ONC
Wen-Tien Chen, PhD	Vitatex, Inc	ONC
Xinbin Chen, PhD	University of Alabama at Birmingham	ONC
Yiu-Fai Chen, PhD	University of Alabama at Birmingham	PPS
Alec M. Cheng, PhD	Washington University	IMM
Genhong Cheng, PhD	University of California, Los Angeles	IMM
Pi-Wan Cheng, PhD	University of North Carolina	PPS
Seng H. Cheng, PhD	Genzyme Corporation	BCS
Selina Chen-Kiang, PhD	Weill Medical College of Cornell University	IMM
Michael L. Cher, MD	Wayne State University	ONC
David A. Cheresch, PhD	Scripps Research Institute	BCS
Andrew J. Cherlin, PhD	Johns Hopkins University	HOP

Simon R. Cherry, PhD	University of California, Davis	SRB
Alexander V. Chervonsky, MD, PhD	Jackson Laboratory	IMM
Charles H. Chesnut, MD	University of Washington	HOP
Marie-Francoise S. Chesselet, MD, PhD	University of California, Los Angeles	IFCN
James M. Cheverud, PhD	Washington University	IFCN
Nipavan Chiamvimonvat, MD	University of California, Davis	CVS
John Y. Chiang, PhD	Northeastern Ohio Universities College of Medicine	CVS
Vincent A. Chiappinelli, PhD	George Washington University	MDCN
Jason W. Chien, MD	Fred Hutchinson Cancer Research Center	MSD
J. A. Chiorini, PhD	National Heart, Lung and Blood Institute	IDM
Athar H. Chishti, PhD	University of Illinois at Chicago	HEME
Judy H. Cho, MD	University of Chicago	PPS
Wonhwa Cho, PhD	University of Illinois at Chicago	BPC
Senyon Choe, PhD	Salk Institute For Biological Studies	MDCN
Yongwon Choi, PhD	University of Pennsylvania	IMM
Anita S. Chong, PhD	University of Chicago	GNS
Michael J. Chorney, PhD	Pennsylvania State University Hershey Medical Center	CVS, HEME
Margaret M. Chou, PhD	University of Pennsylvania	CDF
Esther N. Chow, PhD	American University	RPHB
Marie Chow, PhD	University of Arkansas For Medical Sciences	CDF
David W. Christianson, PhD	University of Pennsylvania	BCS
Michael F. Christman, PhD	Boston University School of Medicine	ONC
Nam-Hai Chua, PhD	The Rockefeller University	CDF
Jerold J. Chun, MD, PhD	Scripps Research Institute	MDCN
Marvin M. Chun, PhD	Yale University	BBBP
Dominic W. Chung, PhD	University of Washington	HEME
Frank C. Church, PhD	University of North Carolina, Chapel Hill	HEME
Mair E. Churchill, PhD	University of Colorado Health Sciences Center	IDM
George T. Cicila, PhD	Medical College of Ohio at Toledo	CVS
Chiara Cirelli, MD, PhD	University of Wisconsin, Madison	IFCN
Paul R. Clapham, PhD	University of Massachusetts Medical School, Worcester	AARR
Michael J. Clare-Salzler, MD	University of Florida	IMM
Ann S. Clark, PhD	Dartmouth College	IFCN
Edward A. Clark, MD, PhD	University of Washington	IMM
Leslie F. Clark, PhD	University of Alabama at Birmingham	AARR
Marcus R. Clark, MD	University of Chicago	IMM
Robert A. Clark, MD	Medical School at San Antonio	CDF
Hugh J. Clarke, PhD	Royal Victoria Hospital	ENR
Elizabeth B. Claus, MD, PhD	Yale University	HOP
David F. Clayton, PhD	University of Illinois	MDCN
Kevin R. Cleary, PhD	Kitware, Inc	MSD
Thomas L. Clemens, PhD	University of Cincinnati School of Medicine	MSD
Charles V. Clevenger, MD, PhD	University of Pennsylvania	ENR
Hollis T. Cline, PhD	University of Iowa	IFCN
Steven K. Clinton, MD, PhD	Ohio State University	ONC
Mary J. Cloninger, PhD	Montana State University, Bozeman	BPC
Jenifer L. Coburn, PhD	New England Medical Center Hospitals	BCS
Stephen Coburn, PhD	Fort Wayne State Development Center	NMS
Susan D. Cochran, PhD	University of California, Los Angeles	HOP
Vivian Cody, PhD	Hauptman-Woodward Medical Research Institute	AARR
Christopher L. Coe, PhD	University of Wisconsin	BBBP
William A. Coetsee, DSc, PhD	New York University	CVS
Robert J. Coffey, MD	Vanderbilt University	ONC
Andrew R. Coggan, PhD	University of Maryland Baltimore Professional School	MSD
K. Mark Coggeshall, PhD	Oklahoma Medical Research Foundation	IMM
Frederick M. Cohan, PhD	Wesleyan University	GNS
Fredric S. Cohen, PhD	Rush-Presbyterian-St. Luke's Medical Center	MDCN
Michael B. Cohen, MD	University of Iowa	ONC
Robert E. Cohen, PhD	University of Iowa	BCS
Orna Cohen-Fix, PhD	Carnegie Institution of Washington, DC	CDF

Theodore E. Cohn, PhD	University of California	HOP
Melissa C. Colbert, PhD	Children's Hospital Medical Center, Cincinnati	MDCN
Craig R. Colder, MD, PhD	State University of New York at Buffalo	HOP
Bernard F. Cole, PhD	Dartmouth College	ONC
Charles N. Cole, PhD	Dartmouth College	CDF
David J. Cole, MD	Medical University of South Carolina	ONC
Kelly J. Cole, PhD	University of Iowa	MSD
Philip A. Cole, MD, PhD	Johns Hopkins University	BPC
William B. Coleman, PhD	University of North Carolina, Chapel Hill	IDM
Deirdre Coll, MD	Cornell University Medical College	SRB
Lisa M. Colletti, MD	University of Michigan at Ann Arbor	SRB
Karen J. Colley, PhD	University of Illinois at Chicago	BCS
Patricia A. Collin-Osdoby, PhD	Washington University	MSD
Allan C. Collins, PhD	University of Colorado at Boulder	IFCN
Edward J. Collins, PhD	University of North Carolina	BPC
J. G. Collins, PhD	Yale University	SRB
Sheila Collins, PhD	Duke University Medical Center	ENR
Wilfredo Colon, PhD	Rensselaer Polytechnic Institute	BCS
Marco Colonna, MD	Washington University	IMM
Carol A. Colton, PhD	Duke University Medical Center	MDCN
Lucio Comai, PhD	University of Southern California	BCS
Fabio Cominelli, MD, PhD	University of Virginia	PPS
Teresa G. Compton, PhD	University of Wisconsin	IDM
Anthony A. Comuzzie, PhD	Southwest Foundation For Biomedical Research	NMS
Ronald C. Conaway, PhD	Stowers Institute For Medical Research	BCS
John G. Conboy, PhD	Lawrence Berkeley National Laboratory	CVS
Patrick J. Concannon, PhD	Benaroya Research Institute at Virginia Mason	ONC
Richard C. Condit, PhD	University of Florida	IDM
Laura Conforti, PhD	University of Cincinnati	ONC
Vicki S. Conn, PhD	University of Missouri, Columbia	HOP
Barry W. Connors, PhD	Brown University	IFCN
Flavia B. Consens, MD	Michael S. Aldrich Sleep Disorders Laboratory	HOP
Christopher H. Contag, PhD	Stanford University	ONC, SRB
Peter S. Conti, MD, PhD	University of Southern California	AARR
Simon J. Conway, PhD	Indiana University-Purdue University, Indianapolis	CVS
Kathleen Conway-Dorsey, PhD	University of North Carolina, Chapel Hill	HOP
James L. Cook, MD	University of Illinois at Chicago	IDM
Robert T. Cook, MD, PhD	University of Iowa	PPS
John P. Cooke, MD, PhD	Stanford University School of Medicine	NMS
Joan M. Cook-Mills, PhD	University of Cincinnati	CVS
Kevin M. Coombs, PhD	University of Manitoba	IDM
David W. Coon, PhD	Goldman Institute On Aging	AARR
Hilary H. Coon, PhD	University of Utah	GNS
William P. Cooney, MD	Mayo Clinic	MSD
Denise R. Cooper, PhD	University of South Florida	ENR
Edward C. Cooper, MD, PhD	University of Pennsylvania	MDCN
John A. Cooper, MD, PhD	Washington University	CDF
Jonathan A. Cooper, PhD	Fred Hutchinson Cancer Research Center	CDF
Barry S. Cooperman, PhD	University of Pennsylvania	BCS, BPC
Craig Coopersmith, MD	Washington University	SRB
Victor G. Corces, PhD	Johns Hopkins University	CDF
Daniel M. Corcos, PhD	University of Illinois at Chicago	MSD
Linda A. Corey, PhD	Virginia Commonwealth University	HOP
Gabriel Corfas, PhD	Children's Hospital, Boston	MDCN
Brendan Cormack, PhD	Johns Hopkins University	AARR, IDM
Kenneth G. Cornetta, MD	Indiana University School of Medicine	ONC
Mark W. Cornwall, PhD	Northern Arizona University	MSD
David B. Corry, MD	Baylor College of Medicine	IMM
Peter M. Corry, PhD	William Beaumont Hospital	ONC
Marshall A. Corson, MD	University of Washington	CVS

Gino A. Cortopassi, PhD	University of California, Davis	MDCN
Gloria M. Coruzzi, PhD	New York University	CDF
William H. Coryell, MD	University of Iowa	BBBBP
Lucio G. Costa, PhD	University of Washington	IFCN
Catherine E. Costello, PhD	Boston University School of Medicine	BCS
Gilbert J. Cote, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Susan F. Cotmore, PhD	Yale University School of Medicine	IDM
Shaun R. Coughlin, MD, PhD	University of California, San Francisco	HEME
George Coukos, MD, PhD	University of Pennsylvania	ENR
Susan M. Courtney, PhD	Johns Hopkins University	IFCN
Marjorie M. Kelly Cowan, PhD	Miami University, Oxford	MSD
Brian M. Cox, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	MDCN
Charles L. Cox, PhD	University of Illinois	IFCN
Nancy J. Cox, PhD	University of Chicago	BBBBP
Terry A. Cox, MD, PhD	National Eye Institute	CDF
Susan W. Craig, PhD	Johns Hopkins University	MDCN
William J. Craigen, MD, PhD	Baylor College of Medicine	CDF
Steven C. Cramer, MD	University of California, Irvine	BDCN
William A. Cramer, PhD	Purdue University	BPC
Fiona C. Crawford, PhD	Roskamp Foundation	IMM
Nigel M. Crawford, PhD	University of California, San Diego	CDF
Susan E. Crawford, MD, PhD	Northwestern University	ONC
Fulton T. Crews, PhD	University of North Carolina	IFCN
Stephen T. Crews, PhD	University of North Carolina, Chapel Hill	MDCN
Michael T. Crimmins, PhD	University of North Carolina	BPC
Richard M. Cripps, PhD	University of New Mexico	CVS
Ian N. Crispe, MB, PhD	University of Rochester	IMM
Cathy W. Critchlow, PhD	University of Washington	MSD
John C. Crocker, PhD	University of Pennsylvania	CDF
Ellen K. Cromley, PhD	University of Connecticut	HOP
Alice Cronin-Golomb, PhD	Boston University, Charles River Campus	BBBBP
Elliott Crooke, PhD	Georgetown University	AARR
Elizabeth C. Cropper, PhD	Mount Sinai School of Medicine	IFCN
Frederick R. Cross, PhD	The Rockefeller University	CDF
David L. Crowe, DDS	University of Southern California	MSD
James E. Crowe, MD	Vanderbilt University	IDM
B. Anne Croy, DVM, PhD	University of Guelph	IMM
Dean G. Cruess, PhD	University of Pennsylvania	BBBBP
Joseph F. Cubells, MD, PhD	Yale University	HOP
Ana M. Cuervo, MD, PhD	Yeshiva University	CDF
Liwang Cui, PhD	Pennsylvania State University	IDM
Kenneth Culp, PhD	University of Iowa	HOP
James N. Culver, PhD	University of Maryland Biotechnology Institute	IDM
William Cumberland, PhD	University of California, Los Angeles	AARR
Bruce Cumming	National Eye Institute	IFCN
E. Mark Cummings, PhD	University of Notre Dame	RPHB
Richard D. Cummings, PhD	University of Oklahoma Health Sciences Center	BCS, ONC
Theodore R. Cummins, PhD	Indiana University, Indianapolis	IFCN
David Cunningham, PhD	Abbott Laboratories	SRB
Michael Cunningham, MD, PhD	Children's Hospital and Regional Medical Center	MSD
Patrick N. Cunningham, MD	University of Chicago	CVS
Tyler J. Curiel, MD	Tulane University School of Medicine	IMM
Patrick J. Curran, PhD	University of North Carolina	HOP
John J. Curtin, PhD	University of Wisconsin	BBBBP
Roy I. Curtiss, PhD	Washington University	IDM
Bruce S. Cushing, PhD	University of Illinois at Chicago	BBBBP
Christopher W. Cutler, DDS, PhD	State University of New York at Stony Brook	MSD
David M. Cutler, PhD	National Bureau of Economic Research	HOP
Ernest Cutz, MD	Hospital For Sick Children	ONC
Douglas M. Cyr, PhD	University of North Carolina, Chapel Hill	BCS

Ronald F. Czaja, PhD	North Carolina State University	HOP
Marc D'Alarcao, PhD	Tufts University, Medford	BPC
James B. Dale, MD, PhD	University of Tennessee Health Science Center	IDM
Sarah L. Dallas, PhD	University of Missouri, Kansas City	MSD
Diane L. Damiano, PhD	Washington University	MSD
Deborah H. Damon, PhD	University of Vermont	CVS
Yang Dan, PhD	University of California, Berkeley	IFCN
Jeffrey L. Dangl, PhD	Institute For Genomic Research	CDF
Marcetta Y. Darensbourg, PhD	Texas A&M University System	BPC
Nancy E. Darling, PhD	Bard College	RPHB
Warren G. Darling, PhD	University of Iowa	BDCN
Dipak K. Das, PhD	University of Connecticut	CVS
Mary C. Dasso, PhD	National Institute of Child Health and Human Development	CDF
Subimal Datta, PhD	Boston University School of Medicine	IFCN
Lesley Davenport, PhD	Brooklyn College, City University of New York	BPC
Michael David, PhD	University of California, San Diego	IMM
Amy J. Davidoff, PhD	University of New England	CVS
Bradley S. Davidson, PhD	Utah State University	BPC
Jeffrey M. Davidson, PhD	Wound Healing Society	CVS
Jeffrey N. Davidson, PhD	University of Kentucky	GNS
Joanna D. Davies, PhD	Torrey Pines Institute of Molecular Studies	IMM
Peter Davies, PhD	Albert Einstein College of Medicine, Yeshiva University	MDCN
Joanne Davila, PhD	State University of New York at Stony Brook	RPHB
Victor G. Davila-Roman, MD	Washington University School of Medicine	SRB
Brian M. Davis, MD, PhD	University of Pittsburgh	MDCN
Frederick C. Davis, PhD	Northeastern University	IFCN
John S. Davis, PhD	University of Nebraska Medical Center	ENR
Jonathan M. Davis, MD	Winthrop-University Hospital	ENR
Karen D. Davis, PhD	Toronto Western Research Institute	IFCN
Laurie S. Davis, PhD	University of Texas Southwestern Medical Center at Dallas	HEME
Trisha N. Davis, PhD	University of Washington	CDF
Robin L. Davisson, PhD	University of Iowa	CVS
Christopher A. Dawson, PhD	Medical College of Wisconsin	PPS
Brian J. Day, PhD	National Jewish Medical and Research Center	PPS
Alessandra D'Azzo, PhD	St. Jude Children's Research Hospital	BCS
Mariza De Andrade, PhD	Mayo Clinic	GNS
Louis J. De Felice, PhD	Vanderbilt University	MDCN
Juan C. De La Torre, PhD	Scripps Research Institute	IDM
Dominick De Luca, PhD	Arizona Health Science Center	BDCN
Pieter P. De Tombe, PhD	University of Illinois at Chicago	CVS
Paul De Vita, PhD	East Carolina University	MSD
Geert J. De Vries, PhD	University of Massachusetts	MDCN
Gregg A. Dean, DVM, PhD	North Carolina State University, Raleigh	AARR
Frederick C. Debeer, MD	University of Kentucky Medical Center	NMS
Asim K. Debnath, PhD	New York Blood Center	AARR
John R. Dedman, PhD	University of Cincinnati	HEME
George S. Deepe, MD	University of Cincinnati	IDM
Marie C. Defrances, MD, PhD	University of Pittsburgh	ONC
Sandra J. Degen, PhD	Children's Hospital Medical Center, Cincinnati	CVS, ONC
Prescott Deininger, PhD	Tulane Cancer Center	GNS
Gordon F. Dejong, PhD	Pennsylvania State University	HOP
Gregory J. Del Zoppo, MD	Scripps Research Institute	BDCN
Patrice Delafontaine, MD	Tulane University	CVS
Douglas L. Delahanty, PhD	Kent State University	BBBP
Pedro L. Delgado, MD	Case Western Reserve University	BBBP
Anthony Delitto, PhD	University of Pittsburgh	MSD
Judy Deloache, PhD	University of Virginia, Charlottesville	BBBP
Marie B. Demay, MD	Massachusetts General Hospital	MSD
Daphne E. Demello, MD	Cardinal Glennon Children's Hospital	ENR
Kenneth L. Demerjian,	University of Albany	HOP

Todd L. Demmy, MD	Roswell Park Cancer Institute	ONC
Evan S. Deneris, PhD	Case Western Reserve University	MDCN
Susanne A. Denham, PhD	George Mason University	BBBBP
Eric Y. Denkers, PhD	Cornell University, Ithaca	IDM
Scott C. Denne, MD	Indiana University	ENR
Natacha Depaola, PhD	Rensselaer Polytechnic Institute	CVS
Channing J. Der, PhD	University of North Carolina, Chapel Hill	ONC
Tejal A. Desai, PhD	Boston University, Charles River Campus	MDCN
Raymond J. Deshaies, PhD	California Institute of Technology	CDF
Nancy L. Desmond, PhD	University of Virginia	IFCN
Thomas F. Deuel, MD	Scripps Research Institute	CVS
Curtis K. Deutsch, PhD	University of Massachusetts Medical School, Worcester	HOP
Walter A. Deutsch, PhD	Louisiana State University	ONC
Leslie L. Devaud, PhD	Idaho State University	IFCN
Kelly Devers, PhD	Center For Studying Health System Change	HOP
Jessy G. Devieux, PhD	Florida International University	AARR
Bernie Devlin, PhD	Western Psychiatric Institute and Clinic	GNS
Stephen H. Devoto, PhD	Wesleyan University	CDF
Julius Pa Dewald, PhD	Northwestern University	MSD
David L. Dewitt, PhD	Michigan State University	BCS
Douglas S. Dewitt, PhD	University of Texas Medical Branch at Galveston	BDCN
Richard D. Dey, PhD	West Virginia University	PPS
Edgar A. Deyoe, PhD	Medical College of Wisconsin	IFCN
Madhav V. Dhodapkar, MB, MD	The Rockefeller University	IMM
Paul E. Di Cesare, MD	Hospital For Joint Diseases Orthopedic Institute	MSD
Gill Diamond, PhD	University of Medicine and Dentistry of New Jersey	IDM
Denis J. Diangelo, PhD	University of Tennessee Health Science Center	SRB
Clemente Diaz, MD, PhD	University of Puerto Rico Medical School	AARR
Frank A. Dibianca, PhD	University of Tennessee	SRB
Emanuel M. Diccio-Bloom, MD	Robert Wood Johnson Medical School	MDCN
Robert M. Dickson, PhD	Georgia Institute of Technology	BPC
Joseph A. Didonato, PhD	Cleveland Biolabs, Inc	IMM
Robert F. Diegelmann, PhD	Virginia Commonwealth University	SRB
David L. Diehl, MD	New York University	PPS
Kim N. Dietrich, PhD	University of Cincinnati	HOP
Harry C. Dietz, MD	Johns Hopkins University	GNS
Marian Difiglia, PhD	Massachusetts General Hospital	MDCN
Mark B. Dignan, PhD	University of Kentucky	HOP
Mingzhou Ding, PhD	Florida Atlantic University	IFCN
Jonathan D. Dinman, PhD	University of Maryland, College Park	BCS
Joseph M. Dirienzo, DMD, PhD	University of Pennsylvania	MSD
Christine M. Disteche, PhD	University of Washington	GNS
Mark D. Distefano, PhD	University of Minnesota	BPC
John F. Disterhoft, PhD	Northwestern University Medical School	IFCN
Henrik J. Ditzel, MD, PhD	Scripps Research Institute	ONC
Chaitanya R. Divgi, MD	Sloan-Kettering Institute For Cancer Research	ONC
Dabney W. Dixon, PhD	Georgia State University	BPC
Joseph L. Dixon, PhD	University of Missouri, Columbia	NMS
Debra I. Diz, PhD	Wake Forest University Health Sciences	CVS
Daniel Djakiew, PhD	Georgetown University	ONC
Julie Y. Djeu, PhD	University of South Florida	ONC
Dean E. Dluzen, PhD	Northeastern Ohio Universities	MDCN
Rick T. Dobrowsky, PhD	University of Kansas	BCS
George R. Dodge, PhD	Alfred I. Du Pont Hospital For Children	MSD
Chris Q. Doe, PhD	University of Oregon	MDCN
Bruce J. Dolnick, PhD	Roswell Park Cancer Institute	ONC
Frederick E. Domann, PhD	University of Iowa	ONC
Robert W. Doms, MD, PhD	University of Pennsylvania	AARR
Robert M. Donahoe, PhD	Emory University	AARR
Henry J. Donahue, PhD	Pennsylvania State University	MSD

Bruce Randall Donald, PhD	Dartmouth College	BPC
Geri R. Donenberg, PhD	University of Illinois at Chicago	AARR
Cheng Dong, PhD	Pennsylvania State University	SRB
Zigang Dong, DRPH, MD	University of Minnesota, Twin Cities	ONC
Isaac O. Donkor, PhD	University of Tennessee	AARR
Allan Donner, PhD	University of Western Ontario	HOP
Terrence M. Donohue, PhD	University of Nebraska Medical Center	PPS
Peter J. Donovan, PhD	Johns Hopkins University	ENR
James H. Doroshov, MD	City of Hope National Medical Center	ONC
Dale L. Dorsett, PhD	St. Louis University	CDF
Kenneth A. Dorshkind, PhD	University of California, Los Angeles	IMM
Barbara A. Doshier, PhD	University of California, Irvine	BBBBP
Lynn Doucette-Stamm, PhD	Genome Therapeutics Corporation	GNS
Doris J. Doudet, PhD	University of British Columbia	BBBBP
Steven D. Douglas, MD	Children's Hospital of Philadelphia	AARR
Karen M. Downs, PhD	University of Wisconsin, Madison Medical School	ENR
Gary W. Dowsett, PhD	Columbia University	AARR
Stephen C. Dreskin, MD, PhD	University of Colorado Health Sciences Center	IMM
Lawrence Dresner, PhD	Personal Consultant	SRB
Paul D. Drew, PhD	University of Arkansas For Medical Sciences	IMM
Marie J. Driever, PhD	Providence Portland Medical Center	HOP
Monica A. Driscoll, MD, PhD	Rutgers University	MDCN
David J. Drobos, PhD	H. Lee Moffitt Cancer Center and Research Institute	BBBBP
William R. Drobyski, MD	Medical College of Wisconsin	ONC
David G. Drubin, PhD	University of California	CDF
Iain A. Drummond, PhD	Massachusetts General Hospital	MSD
Xiaoping Du, MD, PhD	University of Illinois at Chicago	HEME
Louis Dubeau, MD, PhD	University of Southern California	ONC
Steven M. Dubinett, MD	University of California, Los Angeles	ONC
David A. Dubnau, PhD	Public Health Research Institute	IDM
Margarita L. Dubocovich, PhD	Northwestern University	IFCN
Colin S. Duckett, PhD	University of Michigan at Ann Arbor	CDF
F. Edward Dudek, PhD	Colorado State University	MDCN
Samuel C. Dudley, MD, PhD	Emory University	CVS
William N. Dudley, PhD	University of Utah	HOP
Jeff L. Duerk, PhD	Case Western Reserve University	SRB
Ann-Christine Duhaim, MD, PhD	Dartmouth College	BBBBP
Nickolai O. Dulin, PhD	University of Chicago	CVS
Ronald S. Duman, MD, PhD	Yale University	MDCN
Daniel J. Dumont, PhD	Sunnybrook and Women's College Health Sciences Center	CVS
Marilyn J. Duncan, PhD	University of Kentucky	IFCN
Pamela W. Duncan, PhD	University of Florida	HOP
Randall L. Duncan, PhD	Indiana University	MSD
Stephen A. Duncan, PhD	Medical College of Wisconsin	NMS
Eloise E. Dunlap, PhD	National Development and Research Institutes	HOP
Ben M. Dunn, PhD	University of Florida	AARR
Jeffrey F. Dunn, PhD	Dartmouth College	PPS
John J. Dunn, PhD	Brookhaven Science Association-Brookhaven Laboratory	GNS
Kenneth W. Dunn, PhD	Indiana University School of Medicine	MSD
George J. Dupaul, PhD	Lehigh University	BBBBP
Josee Dupuis, PhD	Boston University, Medical Campus	HOP
Cynthia M. Dupureur, PhD	University of Missouri, St. Louis	BPC
Joan E. Durbin, MD, PhD	Children's Hospital, Columbus	IDM
Gennaro D'urso, PhD	University of Miami School of Medicine	ONC
Susan K. Dutcher, PhD	Washington University	CDF
Mary Ann Dutton, PhD	Georgetown University	RPHB
Harry P. Duval, PhD	University of Georgia	HOP
Gabriela S. Dveksler, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	ENR
Linda P. Dwoskin, PhD	University of Kentucky	IFCN
Charissa A. Dyer, PhD	Children's Hospital of Philadelphia	NMS

Cheryl A. Dyer, PhD	Northern Arizona University	CVS
Brian D. Dynlacht, PhD	New York University School of Medicine	CDF
Craig C. Earle, MD	Dana-Farber Cancer Institute	HOP
Janet F. Eary, MD	University of Washington Medical Center	SRB
Randolph Easton, PhD	Boston College	IFCN
David L. Eaton, PhD	University of Washington	HOP
Douglas C. Eaton, PhD	Emory University	BCS, MSD
Gareth R. Eaton, PhD	University of Denver	BPC
William W. Eaton, PhD	Johns Hopkins University	HOP
Lindon J. Eaves, DSc, PhD	Virginia Commonwealth University	GNS
Timothy J. Ebner, MD, PhD	University of Minnesota	IFCN
William C. Eckelman, PhD	Clinical Center, National Institutes of Health	SRB
John J. Eckenrode, PhD	Cornell University, Ithaca	RPHB
Linda O. Eckert, MD	University of Washington, Harborview Medical Center	ENR
Barbara Eckman, PhD	IBM Life Sciences Solution Development	GNS
Miguel P. Eckstein, PhD	University of California, Santa Barbara	SRB
James S. Economou, MD, PhD	University of California, Los Angeles	ONC
E. M. Eddy, PhD	National Institute of Environmental Health Sciences	ENR
Winfried Edelmann, PhD	Albert Einstein College of Medicine, Yeshiva University	ONC
V. Reggie Edgerton, PhD	University of California, Los Angeles	MSD
Dale E. Edmondson, PhD	Emory University	BPC
John C. Edwards, MD, PhD	St. Louis Veterans Affairs Medical Center	MSD
Marilyn S. Edwards, PhD	University of Texas at Houston Medical School	HOP
Robert H. Edwards, MD	Federation of American Societies For Experimental Biology	MDCN
Leonard E. Egede, MD	Medical University of South Carolina	HOP
Edward H. Egelman, PhD	University of Virginia	BPC
Garth D. Ehrlich, PhD	Allegheny-Singer Research Institute	IDM
Eric Eich, PhD	University of British Columbia	BBBP
Evan E. Eichler, PhD	Case Western Reserve University	GNS
Thomas H. Eickbush, PhD	University of Rochester	GNS
Howard J. Eisen, MD	Temple University	SRB
Nancy H. Eisenberg, PhD	Arizona State University	BBBP
Edward Eisenstein, PhD	Gordon Research Conferences	BCS
Thomas E. Eissenberg, PhD	Medical College of Virginia	BBBP
Stephen C. Ekker, PhD	University of Minnesota Medical School	GNS
Cornelis J. Elferink, PhD	University of Texas Medical Branch	PPS
Sarah C. Elgin, PhD	Washington University	GNS
Keith B. Elkon, MD	University of Washington	IMM
Edward F. Ellerbeck, MD	University of Kansas Medical Center	HOP
Lee M. Ellis, MD	University of Texas M.D. Anderson Cancer Center	ONC
Mark Ellis, PhD	University of Washington	HOP
Paul D. Ellis, PhD	Battelle Pacific Northwest Laboratories	BPC
Ronald J. Ellis, MD, PhD	University of California	AARR
Susan Ellis-Weismer, PhD	University of Wisconsin, Madison	BBBP
Heidi G. Elmendorf, PhD	Georgetown University	IDM
Keith S. Elmslie, PhD	Tulane University	MDCN
Sarah H. Elsea, PhD	Michigan State University	GNS
Hashem B. El-Serag, MD	Houston Veterans Affairs Medical Center	HOP
Daniel L. Ely, PhD	Ohio University, Athens	CVS
Stephen G. Emerson, MD, PhD	University of Pennsylvania	IMM
Ronald B. Emeson, PhD	Vanderbilt University	MDCN
Scott W. Emmons, PhD	Albert Einstein College of Medicine, Yeshiva University	BBBP
Richard I. Enelow, MD	Yale University	PPS
Charis Eng, MD, PhD	Ohio State University	ONC
David R. Engelke,	University of Michigan at Ann Arbor	CDF
Alan N. Engelman, PhD	Dana-Farber Cancer Institute	AARR
William R. Engels, PhD	University of Wisconsin, Madison	GNS
Sarah K. England, PhD	University of Iowa	CDF
Caroline A. Enns, PhD	Oregon Health and Science University	HEME
Steven J. Eppell, PhD	Case Western Reserve University	MDCN

Janan T. Eppig, PhD	Jackson Laboratory	GNS
John J. Eppig, PhD	Jackson Laboratory	ENR
Jeffery N. Epstein, PhD	Duke University Medical Center	BBBBP
Jonathan A. Epstein, MD	University of Pennsylvania	CVS
Miles L. Epstein, PhD	University of Wisconsin, Madison	MDCN
Paul N. Epstein, PhD	University of Louisville	NMS
Dorothy A. Erie, PhD	University of North Carolina, Chapel Hill	BPC
Joseph S. Erlichman, PhD	St. Lawrence University	PPS
Mary S. Erskine, PhD	Boston University, Charles River Campus	BBBBP
Brenda Eskenazi, PhD	University of California, Berkeley	BBBBP
Alvaro G. Estevez, PhD	University of Alabama	CDF
Antonio L. Estrada, PhD	University of Arizona	AARR
Steven S. Estus, PhD	University of Kentucky	MDCN
Gerard I. Evan, PhD	University of California, San Francisco	ONC
David H. Evans, PhD	University of Guelph	IDM
Sydney M. Evans, DVM, VMD	University of Pennsylvania	ONC
Todd R. Evans, PhD	Albert Einstein College of Medicine, Yeshiva University	HEME
William J. Evans, PhD	University of Puerto Rico, Mayaguez	HOP
Jeffrey L. Evelhoch, PhD	Pfizer Global Research and Development	SRB
Douglas C. Ewbank, PhD	University of Pennsylvania	HOP
Warren J. Ewens, PhD	University of Pennsylvania	GNS
Andrew G. Ewing, PhD	Pennsylvania State University, University Park	IFCN
Robert L. Fairchild, PhD	Cleveland Clinic Foundation	CVS
Peter G. Fajer, PhD	University of Central Florida	BPC
Margaret D. Fallin, PhD	Johns Hopkins University	HOP
Justin R. Fallon, PhD	Brown University	MDCN
Ellen H. Fanning, PhD	Vanderbilt University	BCS
Philip J. Farabaugh, PhD	University of Maryland, Baltimore County	BCS
Frank M. Faraci, PhD	University of Iowa College of Medicine	CVS
Donna L. Farber, PhD	University of Maryland, College Park	IMM
Albert I. Farbman, DMD, PhD	Northwestern University	MDCN
Jerry M. Farley, PhD	University of Mississippi Medical Center	MDCN
Stephen R. Farmer, PhD	Keystone Symposia	NMS
Peggy J. Farnham, PhD	University of Wisconsin	CDF
Carol J. Farran, DNSc, ScD	Rush-Presbyterian-St. Luke's Medical Center	HOP
S. Hossein Fatemi, MD, PhD	University of Minnesota Medical School	BDCN
Elaine M. Faustman, PhD	University of Washington	PPS
Philip J. Fay, PhD	University of Rochester	CVS
Jean E. Feagin, PhD	Seattle Biomedical Research Institute	IDM
Martha J. Fedor, PhD	Scripps Research Institute	BCS
Veronica D. Feeg, PhD	George Mason University	HOP
Andrew S. Feigin, MD	North Shore-Long Island Jewish Research Institute	BDCN
Deborah A. Fein, PhD	University of Connecticut, Storrs	BBBBP
George Fein, PhD	Neurobehavioral Research, Inc	IFCN
Candice Feiring, PhD	College of New Jersey	RPHB
Jimmy B. Feix, PhD	Medical College of Wisconsin	MDCN
Eva L. Feldman, MD, PhD	University of Michigan at Ann Arbor	NMS
Heidi Feldman, MD, PhD	Children's Hospital of Pittsburgh	BBBBP
Ken S. Feldman, PhD	Pennsylvania State University, University Park	BPC
Steve Feldman, MD, PhD	Wake Forest University	MSD
Heinz Feldmann, MD, PhD	University of Manitoba	PPS
Carolyn A. Felix, MD	Children's Hospital of Philadelphia	ONC
Peter J. Felsburg, MD, PhD	University of Pennsylvania	CVS, HEME
Gen-Sheng Feng, PhD	Burnham Institute	CVS
Glenn J. Fennelly, MD	Albert Einstein College of Medicine, Yeshiva University	AARR
Edwin L. Ferguson, PhD	University of Chicago	CDF
Thomas W. Ferkol, MD	Washington University School of Medicine	BCS
Robert E. Fern, PhD	University of Leicester	MDCN
Gabriel J. Fernandes, MD, PhD	University of Texas Health Science Center	MSD
Maria E. Fernandez-Esquer, PhD	University of Texas Health Science Center, Houston	AARR

Thomas N. Ferraro, PhD	University of Pennsylvania	IFCN
David L. Ferster, PhD	Northwestern University	IFCN
Lawrence L. Feth, PhD	Ohio State University	IFCN
James W. Fickett, PhD	GlaxoSmithKline, Inc	GNS
Jeffrey M. Field, PhD	University of Pennsylvania	BCS
Edelle C. Field-Fote, PhD	University of Miami School of Medicine	MSD
Douglas R. Fields, PhD	National Institute of Child Health and Human Development	MDCN
Lanny Fields, PhD	College of Staten Island, City University of New York	BBBBP
Stephen E. Fienberg, PhD	Carnegie Mellon University	HOP
Denise A. Figlewicz, PhD	University of Michigan at Ann Arbor	CDF
Mark T. Fillmore, PhD	University of Kentucky	BBBBP
Paul L. Fine, MD, PhD	Baylor College of Medicine	HOP
Naomi S. Fineberg, PhD	Indiana University School of Medicine	CVS
Anthony L. Fink, PhD	University of California, Santa Cruz	BPC
David J. Fink, MD	University of Pittsburgh	IFCN
Mitchell P. Fink, MD	University of Pittsburgh	ONC
Steven M. Finkbeiner, MD, PhD	J. David Gladstone Institutes	MDCN
James H. Finke, PhD	Cleveland Clinic Foundation	ONC
Deborah Finkel, PhD	Indiana University	HOP
Daniel J. Finley, PhD	Federation of American Societies For Experimental Biology	CDF
Claudio Fiocchi, MD	Case Western Reserve University	PPS
Stuart J. Firestein, PhD	Columbia University	IFCN
Gary L. Firestone, PhD	University of California, Berkeley	CDF
Meri T. Firpo, PhD	University of California, San Francisco	PPS
Gordon J. Fishell, PhD	New York University School of Medicine	MDCN
Dennis G. Fisher, PhD	California State University, Long Beach	AARR
Philip A. Fisher, PhD	Oregon Social Learning Center, Inc	HOP
Steven A. Fisher, MD	Case Western Reserve University	CVS
Susan H. Fisher, PhD	Boston University, Medical Campus	IDM
Paul A. Fishman, PhD	Center For Health Studies	HOP
Hiram E. Fitzgerald, PhD	Michigan State University	HOP
Maryann Fitzmaurice, MD, PhD	Case Western Reserve University	SRB
David Fitzpatrick, PhD	Duke University	IFCN
Paul F. Fitzpatrick, PhD	Texas A&M University Health Science Center	BCS
Robyn Fivush, PhD	Emory University	RPHB
Martin F. Flajnik, PhD	University of Maryland Baltimore Professional School	IMM
John G. Flanagan, PhD	Harvard University Medical School	MDCN
John M. Flanagan, PhD	Pennsylvania State University Hershey Medical Center	BPC
John Randall Flanagan, PhD	Queen's University	IFCN
W. Dana Flanders, MD, PhD	Emory University	HOP
James B. Flanagan, PhD	University of Florida	IDM
John G. Flannery, PhD	University of California, Berkeley	IFCN
Jodi A. Flaws, PhD	University of Maryland Baltimore Professional School	PPS
Brian R. Flay, DPH	University of Illinois at Chicago	HOP
Annette Fleckenstein, PhD	University of Utah	IFCN
Erik K. Flemington, PhD	Tulane University	IDM
Courtney V. Fletcher, PhD	University of Colorado Health Sciences Center	AARR
Sonia C. Flores, PhD	University of Colorado Health Sciences Center	AARR
Lisa C. Flowers, MD	Emory University	ONC
Brian S. Flynn, DSc, PhD	University of Vermont	HOP
Michael J. Flynn, PhD	Henry Ford Health System	MSD
Susan E. Folstein, MD	New England Medical Center Hospitals	BBBBP
Kenneth A. Foon, MD, PhD	University of Pittsburgh	ONC
Michael D. Forgac, PhD	Gordon Research Conferences	BPC
Nancy G. Forger, PhD	University of Massachusetts, Amherst	MDCN
Silvia C. Formenti, MD	New York University School of Medicine	ONC
Tatiana M. Foroud, PhD	Indiana University-Purdue University, Indianapolis	GNS
Karen M. Forrest, PhD	Indiana University	BBBBP
Rosanna M. Forteza, MD	University of Miami School of Medicine	PPS
Theda A. Foster, PhD	Tulane University	PPS

Thomas H. Foster, PhD	University of Rochester	ONC
Ashraf F. Fouad, DDS	University of Connecticut School of Medicine and Dentistry	MSD
Anne L. Foundas, MD	Tulane University	BBBBP, IFCN
Joanna S. Fowler, PhD	Brookhaven Science Association-Brookhaven Laboratory	BDCN
Bernard A. Fox, PhD	Providence Portland Medical Center	ONC
Pamela J. Fraker, PhD	Federation of American Societies For Experimental Biology	IMM
Charles P. France, PhD	University of Texas Health Science Center at San Antonio	BBBBP
Renny T. Franceschi, PhD	University of Michigan at Ann Arbor	MSD
Richard W. Franck, PhD	Hunter College	BPC
Christopher S. Francklyn, PhD	University of Vermont	BCS
Eduardo L. Franco, DRPH, PhD	McGill University	HOP
Stuart J. Frank, MD	University of Alabama	ENR
Renty B. Franklin, PhD	University of Maryland	ENR
Stefan Franzen, PhD	North Carolina State University, Raleigh	BPC
Alan Frazer, PhD	University of Texas Health Science Center at San Antonio	IFCN
William A. Frazier, PhD	Washington University School of Medicine	CDF
Jean M. Frechet, PhD	University of California, Berkeley	BPC
Jeffrey J. Fredberg, PhD	Harvard University	PPS
Gary L. Freed, MD	University of Michigan at Ann Arbor	HOP
Jonathan H. Freedman, PhD	Duke University	CDF
Bruce A. Freeman, PhD	University of Alabama at Birmingham	NMS
James W. Freeman, PhD	University of Texas Health Science Center at San Antonio	ONC
Marc E. Freeman, PhD	Florida State University	ENR
Michael R. Freeman, PhD	Vanderbilt University School of Medicine	ONC
Balz B. Frei, PhD	Oregon State University	CVS
Nelson B. Freimer, MD, PhD	University of California, Los Angeles	GNS
Nancy E. Freitag, PhD	Seattle Biomedical Research Institute	IDM
Kirk A. Frey, MD, PhD	Tourette Syndrome Association, Inc	BDCN
Perry A. Frey, PhD	University of Wisconsin	BPC
James P. Freyer, PhD	Los Alamos National Laboratory	ONC
Gary H. Friday, MD, PhD	Bryn Mawr College	BDCN
Karen H. Friderici, PhD	Michigan State University	IFCN
Judith L. Fridovich-Keil, PhD	Emory University School of Medicine	BCS
Terri R. Fried, MD	Yale University School of Medicine	HOP
Jacob E. Friedman, PhD	University of Colorado Health Sciences Center	ENR, NMS
Peter A. Friedman, PhD	University of Pittsburgh	MSD
Scott L. Friedman, MD, PhD	Mount Sinai School of Medicine	PPS
David D. Friel, PhD	Case Western Reserve University	MDCN
Robert E. Friesel, PhD	Maine Medical Center	MSD
Kevin L. Fritsche, PhD	University of Missouri, Columbia	NMS
Susannah P. Fritton, PhD	City College of New York	MSD
Ilya V. Frolov, PhD	University of Texas Medical Branch	IDM
Clara Fronticelli, PhD	Johns Hopkins University	CVS
Klaus J. Fruh, PhD	Oregon Health and Science University	IDM
Allison D. Fryer, PhD	Oregon Health and Science University	PPS
Shu-Man Fu, MD, PhD	University of Virginia Health Sciences Center	MSD
Xiang-Dong Fu, PhD	University of California, San Diego	CDF
Yang-Xin Fu, MD, PhD	University of Chicago	IMM
Andrew J. Fuglevand, PhD	University of Arizona	MSD
James G. Fujimoto, PhD	Massachusetts Institute of Technology	SRB
Robert S. Fujinami, PhD	University of Utah	IDM
Dai Fukumura, MD, PhD	Massachusetts General Hospital	ONC
Amy M. Fulton, PhD	University of Maryland School of Medicine	ONC
David C. Funder, PhD	University of California, Riverside	BBBBP
Phillip A. Furman, PhD	Triangle Pharmaceuticals, Inc	AARR
Wyndol C. Furman, PhD	University of Denver	RPHB
Bernard W. Futscher, PhD	University of Arizona	GNS, ONC
Dana Gaddy-Kurten, PhD	University of Arkansas For Medical Sciences	MSD
Ari Gafni, MD, PhD	University of Michigan at Ann Arbor	BPC
Robert F. Gagel, MD	University of Texas M.D. Anderson Cancer Center	ENR

James V. Gainer, MD	Vanderbilt University	CVS
Mark M. Galizio, PhD	University of North Carolina, Chapel Hill	BBBBP
Joseph G. Gall, PhD	Carnegie Institution of Washington, DC	CDF
Dympna Gallagher, EdD	St. Luke's Roosevelt Hospital Center	ONC
Patricia J. Gallagher, PhD	Indiana University School of Medicine	CVS
Patrick G. Gallagher, MD	Yale University	CVS, HEME
Philippe A. Gallay, PhD	Scripps Research Institute	AARR
James J. Galligan, PhD	Michigan State University	IFCN
James M. Gallo, PhD	Fox Chase Cancer Center	ONC
Pierluigi Gambetti, MD	Case Western Reserve University	HOP
Sanjiv S. Gambhir, MD, PhD	Stanford University	SRB
Nadarajah Ganeshkumar, PhD	Boston University, Medical Campus	MSD
Stephen J. Gange, PhD	Johns Hopkins University	AARR
Mary Ganguli, MD	University of Pittsburgh	HOP
Kim M. Gans, PhD	Brown University	HOP
R. Michael Garavito, PhD	Michigan State University	BPC
George A. Garcia, PhD	University of Michigan at Ann Arbor	BPC
Anthony L. Gard, PhD	University of South Alabama	MDCN
Esther P. Gardner, PhD	New York University Medical Center	IFCN
Paul D. Gardner, PhD	University of Massachusetts Medical School, Worcester	MDCN
Harinder S. Garewal, MD, PhD	University of Arizona	ONC
Robert E. Garfield, MD, PhD	University of Texas Medical Branch	ENR
Preston E. Garraghty, PhD	Indiana University, Bloomington	IFCN
Marc R. Gartenberg, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	CDF
W. Timothy Garvey, MD	University of Alabama at Birmingham	NMS
Beth A. Garvy, PhD	University of Kentucky	AARR, PPS
John Gatley, PhD	Brookhaven Science Association-Brookhaven Laboratory	MDCN
Carol V. Gay, PhD	Pennsylvania State University	MSD
Xiaojia Ge, PhD	University of California	RPHB
Nicholas E. Geacintov, PhD	New York University	BPC, ONC
Robert L. Geahlen, PhD	Purdue University	BCS
David C. Geary, PhD	University of Missouri, Columbia	BBBBP
Gerald F. Gebhart, PhD	University of Iowa	IFCN
James W. Geddes, PhD	University of Kentucky	BDCN
James C. Gee, PhD	University of Pennsylvania	HOP
William J. Gehring, PhD	University of Michigan	BBBBP
Wilson S. Geisler, PhD	University of Houston	IFCN
Pablo V. Gejman, MD, PhD	Evanston Northwestern Healthcare Research Institute	GNS
Michael H. Gelb, PhD	University of Washington	BPC
Romas Geleziunas, PhD	Merck and Company, Inc	AARR
Celine Gelinias, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	IDM
Jeff Gelles, PhD	Brandeis University	CDF
Susan A. Gelman, PhD	University of Michigan at Ann Arbor	BBBBP
Robert B. Gennis, PhD	University of Illinois at Urbana-Champaign	BPC
Steve N. Georas, MD	John Hopkins University School of Medicine	IMM
Anne George, PhD	University of Illinois at Chicago	MSD
E. Olusegum George, PhD	University of Memphis	HOP
Mark S. George, MD	Medical University of South Carolina	BBBBP
Craig J. Gerard, MD, PhD	Children's Hospital, Boston	CVS
Anthony M. Gerdes, PhD	University of South Dakota	CVS
Gary J. Gerfen, PhD	Albert Einstein College of Medicine, Yeshiva University	BPC
John L. Gerin, PhD	Georgetown University	IDM
James E. Gern, MD	University of Wisconsin, Madison	IMM
Howard K. Gershenfeld, MD, PhD	University of Texas Southwestern Medical Center at Dallas	BBBBP
Anne A. Gershon, MD	Columbia University College of Physicians and Surgeons	IDM
Elliot S. Gershon, MD	University of Chicago	BDCN
Rachel M. Gerstein, PhD	University of Massachusetts Medical School	IMM
Louis C. Gerstenfeld, PhD	Boston University, Medical Campus	MSD
Pamela K. Geyer, PhD	University of Iowa	GNS
Alessandro Ghidini, MD	Georgetown University Hospital	BBBBP

Anuja Ghorpade, PhD	University of Nebraska Medical Center	MDCN
Cecilia M. Giachelli, MD, PhD	University of Washington	CVS
Filippo G. Giancotti, MD, PhD	Sloan-Kettering Institute For Cancer Research	BCS
Christina Gianoulakis, PhD	McGill University and Douglas Hospital	IFCN
Richard A. Gibbs, PhD	Purdue University, West Lafayette	BPC
Robert B. Gibbs, PhD	University of Pittsburgh	MDCN
Gary J. Gibson, PhD	Henry Ford Hospital	MSD
Laura Gibson, PhD	West Virginia University	ONC
Lorna J. Gibson, PhD	Massachusetts Institute of Technology	MSD
Allen L. Gifford, MD	University of California, San Diego	AARR
Maryellen L. Giger, PhD	University of Chicago	MSD
Gregorio Gil, PhD	Medical College of Virginia	NMS
David G. Gilbert, PhD	Southern Illinois University	BBBP
Gary E. Gilbert, MD	Brigham and Women's Hospital	BPC
Ileen Gilbert, MD	Medical College of Wisconsin	HOP
Mark Gilbert, MD	University of Texas M.D. Anderson Cancer Center	ONC
Raymond D. Gilbert, PhD	Loma Linda University	ENR
Susan P. Gilbert, PhD	University of Pittsburgh	CDF
Donna E. Giles, PhD	University of Rochester Medical Center	BDCN
Jeffrey W. Gilger, PhD	California State University	BBBP
Gary S. Gilkeson, MD	Medical University of South Carolina	IMM
Ronald G. Gill, PhD	University of Colorado Health Sciences Center	IMM
Mark N. Gillespie, PhD	University of South Alabama	PPS
James R. Gilmore, PhD	University of Massachusetts Medical School, Worcester	CDF
Michael S. Gilmore, MD, PhD	University of Oklahoma Health Sciences Center	IDM
Thomas D. Gilmore, PhD	Boston University, Charles River Campus	IDM
David Y. Gin, PhD	University of Illinois at Urbana-Champaign	BPC
Gene R. Gindi, PhD	State University of New York at Stony Brook	SRB
Simon F. Giszter, PhD	Hahnemann University	IFCN
George K. Gittes, MD	Children's Mercy Hospital (Kansas City, MO)	NMS
Candece L. Gladson, MD	University of Alabama at Birmingham	ONC
Brian A. Gladue, PhD	University of Cincinnati	RPHB
David L. Glanzman, PhD	University of California, Los Angeles	IFCN
Peter M. Glazer, MD, PhD	Yale University School of Medicine	BCS
Christopher C. Glembotski, PhD	San Diego State University	CVS
Joann E. Glittenberg, PhD	University of Arizona	HOP
Guila Glosser, PhD	University of Pennsylvania Medical Center	IFCN
Gary H. Glover, PhD	Stanford University	MSD
William H. Gmeiner, PhD	Salizburg Therapeutics, Inc	ONC
Rodney C. Go, PhD	University of Alabama at Birmingham	HOP
Vay Liang W. Go, MD, PhD	University of California, Los Angeles	ONC
Alison M. Goate, DPH	Washington University School of Medicine	MDCN
Earl W. Godfrey, PhD	Eastern Virginia Medical School	MDCN
John E. Godwin, MD	Loyola University Medical Center	HOP
Nicholas E. Goeders, PhD	Louisiana State University Medical Center	BBBP
Jon Goerke, MD	University of California, San Francisco	BPC
Edward J. Goetzl, MD	University of California, San Francisco	IMM
David C. Goff, MD, PhD	Wake Forest University Health Sciences	HOP
Edward P. Gogol, PhD	University of Missouri, Kansas City	BPC
Erwin Goldberg, PhD	Northwestern University	ENR
Jeanne Goldberg, PhD	Tufts University	HOP
Robert J. Goldberg, PhD	University of Massachusetts Medical School	HOP
Howard Goldfine, PhD	University of Pennsylvania	IDM
Dmitry Goldgaber, PhD	State University of New York School of Medicine	MDCN
David E. Goldgar, PhD	World Health Organization International Agency Research On Cancer	GNS
Alan L. Goldin, MD, PhD	University of California, Irvine	MDCN
Daniel J. Goldman, PhD	University of Michigan at Ann Arbor	MDCN
Steven A. Goldman, MD, PhD	Cornell University Medical College	MDCN
Lori Goldner, PhD	National Institute of Standards and Technology	BPC
Steven R. Goldring, MD	Beth Israel Deaconess Medical Center	MSD

Pascal J. Goldschmidt-Clermont, MD	Duke University	CVS
Lawrence S. Goldstein, PhD	University of California, San Diego	CDF
Paul J. Goldstein, PhD	University of Illinois at Chicago	HOP
Ronald H. Goldstein, MD	Boston University School of Medicine	PPS
Robert L. Goldstone, PhD	Indiana University, Bloomington	BBBP
Douglas T. Golenbock, MD	University of Massachusetts Memorial Medical Center	IDM
Susanne M. Gollin, PhD	University of Pittsburgh	GNS
Thaddeus G. Golos, PhD	Wisconsin Regional Primate Research Center	ENR
Ellis E. Golub, PhD	University of Pennsylvania	CVS
Timothy M. Gomez, PhD	University of Wisconsin	MDCN
Elise P. Gomez-Sanchez, DVM, PhD	University of Mississippi Medical Center	CVS
Bing Gong, PhD	State University of New York at Stony Brook	BPC
Jianlin Gong, MD	Boston University, Medical Campus	IMM
Steven L. Gonias, MD, PhD	University of Virginia	HEME
Nancy Gonzales, PhD	Arizona State University	RPHB
Norberto C. Gonzalez, MD	University of Kansas Medical Center	PPS
Marion P. Good, PhD	Case Western Reserve University	HOP
Walter F. Good, PhD	University of Pittsburgh	SRB
Paul J. Goodfellow, PhD	Washington University	ONC
Marc T. Goodman, PhD	University of Hawaii at Manoa	HOP
Nat Goodman, PhD	Institute For Systems Biology	GNS
Charles J. Goodnight, PhD	University of Vermont	GNS
Michael I. Goran, PhD	University of Southern California	NMS
Sherwood L. Gorbach, MD, PhD	Tufts University	AARR
Victor R. Gordeuk, MD	Howard University	IDM
Kenneth Gordon, MD	Northwestern University	MSD
Leo I. Gordon, MD	Northwestern University Medical School	ONC
Sherri Sheinfeld Gorin, PhD	Columbia University Health Science Center	HOP
Richard G. Gorlick, MD	Sloan-Kettering Institute For Cancer Research	MSD
Jorg J. Goronzy, MD, PhD	Mayo Clinic, Rochester	MSD
Myriam Gorospe, PhD	National Institute On Aging	BCS
Jack Gorski, PhD	University of Wisconsin, Madison	ONC
Matthias Gotte, PhD	McGill University	AARR
David I. Gottlieb, PhD	Washington University	MDCN
Eric Gouaux, PhD	Columbia University	MDCN
Elizabeth Gould, PhD	Princeton University	IFCN
Kathleen L. Gould, PhD	Vanderbilt University	CDF
Vincent L. Gracco, MD, PhD	Haskins Laboratories	BBBP
Richard Gracely, PhD	National Institute of Dental and Craniofacial Research	IFCN
Todd R. Graham, PhD	Vanderbilt University	CDF
Sandra A. Graham-Bermann, PhD	University of Michigan	RPHB
Joseph P. Grande, MD, PhD	Mayo Clinic, Rochester	MSD
Christopher K. Grant, DSc, PhD	Custom Monoclonals International	AARR
Gregory A. Grant, PhD	Washington University School of Medicine	BCS
Steve Grant, MD	Virginia Commonwealth University	ONC
Lee M. Graves, PhD	University of North Carolina, Chapel Hill	BCS
Joe W. Gray, PhD	University of California, San Francisco	GNS
Wayne L. Gray, PhD	University of Arkansas For Medical Sciences	IDM
David J. Grdina, PhD	University of Chicago	ONC
Carla B. Green, PhD	University of Virginia	IFCN
Douglas R. Green, PhD	La Jolla Institute For Allergy and Immunology	ONC
Jonathan M. Green, MD	Washington University School of Medicine	IMM
Daphne Greenberg, PhD	Georgia State University	BBBP
Jean T. Greenberg, PhD	University of Chicago	CDF
Robert A. Greenes, MD, PhD	Brigham and Women's Hospital	SRB
Philip Greenland, MD	Northwestern University	HOP
Daniel S. Greenspan, PhD	University of Wisconsin, Madison	BCS
Ralph J. Greenspan, PhD	New York University	MDCN
Iva S. Greenwald, PhD	Columbia University	GNS
Charles A. Greer, PhD	Yale University	MDCN

Chris L. Greer, PhD	University of California, Irvine	BCS
Peter K. Gregersen, MD	North Shore-Long Island Jewish Research Institute	IMM
Hattie D. Gresham, PhD	University of New Mexico, Albuquerque	IDM
Edward W. Gresik, PhD	City University of New York Medical School	MSD
Michael R. Gribskov, PhD	University of California, San Diego	GNS
Karen A. Griffin, MD	Loyola University of Chicago	CVS
Patricia S. Grigson, PhD	Pennsylvania State University Hershey Medical Center	IFCN
Judith B. Grinspan, PhD	Children's Hospital of Philadelphia	MDCN
Joanna L. Groden, PhD	University of Cincinnati	ONC
Markus C. Grompe, MD	Federation of American Societies For Experimental Biology	BCS
Angela M. Gronenborn, PhD	National Institute of Diabetes and Digestive and Kidney Diseases	IDM
Charles F. Grose, MD	University of Iowa	HOP
Andrew J. Grossovsky, DSc, PhD	University of California, Riverside	ONC
David S. Gross, MD, PhD	Louisiana State University Health Sciences Center, Shreveport	CDF
Elizabeth A. Grove, PhD	University of Chicago	MDCN
Maleah Grover-Mckay, MD	University of Iowa School of Medicine	SRB
Jonathan H. Gruber, PhD	National Bureau of Economic Research	HOP
Charles T. Grubmeyer, PhD	Temple University	BPC
Martin Gruebele, PhD	University of Illinois at Urbana-Champaign	BPC
Paul J. Gruenewald, PhD	Pacific Institute For Research and Evaluation	HOP
Warren S. Grundfest, MD	University of California, Los Angeles	SRB
Gary A. Gudelsky, PhD	University of Cincinnati	IFCN
Andrei V. Gudkov, PhD	Cleveland Clinic Foundation	ONC
Sandra E. Guggino, PhD	Johns Hopkins University	ONC
Cynthia J. Guidos, PhD	University of Toronto Hospital For Sick Children	IMM
Barry M. Gumbiner, PhD	University of Virginia, Charlottesville	BCS
Paul H. Gumerlock, PhD	University of California, Davis	ONC
Jenny E. Gumperz, PhD	Brigham and Women's Hospital	IMM
Michael D. Gunn, MD	Duke University	IMM
Susan J. Gunst, PhD	Indiana University	PPS
Sudhir Gupta, MD, PhD	University of California, Irvine	AARR, MSD
Olga Gursky, PhD	Boston University, Medical Campus	BPC
Bernard Gutin, PhD	Medical College of Georgia	HOP
Susan H. Guttentag, MD	Children's Hospital of Philadelphia	ENR
R. Kip Guy, PhD	University of California, San Francisco	BPC
Taekjip Ha, PhD	University of Illinois at Urbana-Champaign	BPC
Arthur L. Haas, PhD	Medical College of Wisconsin	CDF, CVS
Wolfgang Haas, PhD	St. Jude Children's Research Hospital	MSD
Joan E. Haase, PhD	Indiana University	HOP
Susan G. Haber	Health Economics Research Inc	BDCN
Mel Haberman, PhD	Washington State University-Spokane	HOP
John J. Hablitz, PhD	University of Alabama at Birmingham	IFCN
Gregg A. Hadley, PhD	University of Maryland Baltimore Professional School	IMM
Susan C. Hagness, PhD	University of Wisconsin	ONC
James S. Hagood, MD	University of Alabama at Birmingham	PPS
Chi-Ming Hai, PhD	Brown University	PPS
Tsonwin S. Hai, PhD	Ohio State University	ENR
Michael R. Haines, PhD	Colgate University	HOP
Thanos D. Halazonetis, DDS, PhD	Wistar Institute	ONC
Sandra S. Hale, PhD	Washington University	BBBP
Dale B. Hales, PhD	University of Illinois at Chicago	ENR
Dennis E. Hallahan, MD, PhD	Vanderbilt University Medical Center	ONC
Joachim F. Hallmayer, MD, PhD	Stanford University	GNS
Elizabeth M. Halloran, DSc, MD	Emory University	HOP
Henry R. Halperin, MD	Johns Hopkins University	CVS
Jeffrey M. Halperin, PhD	Queen's College of University of New York	HOP
Marnie E. Halpern, PhD	Carnegie Institution of Washington, DC	GNS
Frank G. Haluska, MD, PhD	Massachusetts General Hospital	ONC
Charles F. Halverson, PhD	University of Georgia	RPHB
Kimm J. Hamann, PhD	University of Chicago	CVS

Thomas A. Hamilton, PhD	Cleveland Clinic Foundation	IMM
John W. Hammon, MD	Wake Forest University Health Sciences	BDCN, SRB
Wayne W. Hancock, MD, PhD	Children's Hospital of Philadelphia	SRB
Craig L. Hanis, PhD	University of Texas Health Science Center, Houston	HOP
Oliver Hankinson, PhD	University of California, Los Angeles	PPS
Linda K. Hanley-Bowdoin, PhD	North Carolina State University	IDM
Stephen R. Hann, PhD	Vanderbilt University	ONC
Gregory J. Hannon, PhD	Cold Spring Harbor Laboratory	ONC
Yusuf A. Hannun, MD	Medical University of South Carolina	BCS
John A. Hanover, PhD	National Institute of Diabetes and Digestive and Kidney Diseases	CDF
Ted H. Hansen, PhD	Washington University	IMM
Gerard S. Harbison, PhD	University of Nebraska, Lincoln	BPC
David R. Harder, PhD	Medical College of Wisconsin	CVS
Paul E. Hardin, PhD	University of Houston	MDCN
Clifford V. Harding, MD, PhD	Case Western Reserve University	IMM
Matthew P. Hardy, PhD	Population Council	ENR
Iswar K. Hariharan, PhD	Massachusetts General Hospital	MDCN
Richard M. Harland, PhD	University of California, Berkeley	CDF
Donald A. Harn, PhD	Harvard University School of Public Health	IDM
Elizabeth O. Harrington, PhD	Brown University	PPS
Andrew L. Harris, PhD	University of Medicine and Dentistry of New Jersey	MDCN
Peter C. Harris, PhD	Mayo Clinic, Rochester	MSD
Raymond C. Harris, MD	Vanderbilt University	CVS
Ruth B. Harris, PhD	University of Georgia	ENR
Stephen E. Harris, PhD	University of Missouri, Kansas City	MSD
Stephen C. Harrison, PhD	Harvard University Medical School	BPC
Robert D. Harten, PhD	University of Medicine and Dentistry of New Jersey	MSD
John H. Hartwig, PhD	Brigham and Women's Hospital	CVS
Harold A. Harvey, MD	Pennsylvania State University	ONC
Robert D. Harvey, PhD	Case Western Reserve University	CVS
Stephen C. Harvey, PhD	Georgia Institute of Technology	BPC
William F. Haskell, PhD	Stanford University	MSD
Donna K. Hathaway, PhD	University of Tennessee	HOP
Mary E. Hatten, PhD	The Rockefeller University	MDCN
Maria Hatzoglou, PhD	Case Western Reserve University	BCS
Bryan R. Haugen, MD	University of Colorado Health Sciences Center	ENR
Peter Hauschka, PhD	Children's Hospital, Boston	CVS
Elizabeth R. Hauser, PhD	Duke University Medical Center	GNS
Kurt F. Hauser, PhD	University of Kentucky	AARR
Wendy L. Havran, PhD	Scripps Research Institute	IMM
Samuel Hawgood, MB, MD	University of California, San Francisco	PPS
R. Scott Hawley, PhD	Stowers Institute For Medical Research	GNS
Robert G. Hawley, PhD	American National Red Cross	HEME
John G. Hay, MB, MD	New York University School of Medicine	ONC
Tarik F. Haydar, PhD	Children's Research Institute	MDCN
Laura Haynes, PhD	Trudeau Institute, Inc	MSD
Gary S. Hayward, PhD	Johns Hopkins University	IDM
Stanley L. Hazen, MD, PhD	Cleveland Clinic Foundation	HOP
Pingnian He, MD, PhD	University of West Virginia	CVS
Zijiang He, PhD	University of Louisville	BBBP
Patrick J. Heagerty, PhD	University of Washington	HOP
Kevin E. Healy, PhD	University of California, Berkeley	MSD
Patrick Hearing, MD, PhD	State University of New York at Stony Brook	IDM
Andrew C. Heath, PhD	Washington University School of Medicine	HOP
Patricia A. Hebda, PhD	Children's Hospital, Pittsburgh	SRB
David W. Hecht, MD	Loyola University Medical School	GNS
Sidney M. Hecht, PhD	University of Virginia	BPC
Leslie L. Heckert, PhD	University of Kansas	ENR
Jutta Heckhausen, PhD	University of California, Irvine	BBBP
Charles J. Heckman, PhD	Northwestern University	IFCN

Timothy G. Heckman, PhD	Ohio University	AARR
Marc H. Hedrick, MD	University of California, Los Angeles	MDCN
Peter S. Heeger, MD	Cleveland Clinic Foundation	IMM, SRB
Cheryl M. Heesch, PhD	University of Missouri	PPS
Steven R. Heidemann, PhD	Michigan State University	PPS
Daniel F. Heitjan, PhD	University of Pennsylvania	ONC
Margaret M. Heitkemper, PhD	University of Washington	HOP
Stephen L. Helfand, MD, PhD	University of Connecticut School of Medicine and Dentistry	MSD
David M. Helfman, PhD	Cold Spring Harbor Laboratory	CDF
Richard Heller, PhD	RMR Technologies, LLC	ONC
Judith K. Hellerstein, PhD	University of Maryland, College Park	HOP
John D. Helmann, PhD	Cornell University	GNS
John E. Helzer, MD	University of Vermont	HOP
Ali Hemmati-Brivanlou, PhD	The Rockefeller University	CDF
Hugh C. Hemmings, MD, PhD	Weill Medical College of Cornell University	SRB
Barbara L. Hempstead, MD, PhD	Gordon Research Conferences	MDCN
Barbara W. Henderson, PhD	Roswell Park Cancer Institute	ONC
Eric R. Henderson, PhD	Bioforce Nanosciences, Inc	BPC
George I. Henderson, PhD	University of Texas Health Science Center	PPS
Leslie P. Henderson, PhD	Dartmouth Medical School	MDCN
William S. Hendey, PhD	Rush-Presbyterian-St. Luke's Medical Center	PPS
Mary J. Hendrix, DSc, PhD	University of Iowa	ONC
Paul D. Henion, PhD	Ohio State University	CDF
Claudia I. Henschke, MD, PhD	Cornell University Medical College	PPS
Elizabeth P. Henske, MD	Fox Chase Cancer Center	ONC
Peter M. Henson, DVM, PhD	National Jewish Medical and Research Center	CVS
Bernhard J. Hering, MD, PhD	University of Minnesota, Twin Cities	SRB
Brian A. Herman, MD, PhD	University of Texas Health Science Center	CDF, PPS
Gail E. Herman, MD, PhD	Children's Hospital, Columbus	GNS
Paul L. Hermonat, PhD	University of Arkansas For Medical Sciences	AARR
Arturo E. Hernandez, PhD	University of Houston	BBBBP
Maria Hernandez-Reif, PhD	University of Miami School of Medicine	BBBBP
Kevan C. Herold, MD	Columbia University	IMM
Daniel Herschlag, PhD	Stanford University	BCS
Marc B. Hershenson, MD	University of Michigan	PPS
Osnat Herzberg, PhD	University of Maryland Biotechnology Institute	BPC
Roland W. Herzog, PhD	Children's Hospital of Philadelphia	BCS
John R. Hess, MD	University of Maryland	BPC, HEME
Michie N. Hesselbrock, PhD	University of Connecticut, Storrs	HOP
Rita M. Heuertz, PhD	St. Louis University	PPS
Sandra J. Hewett, PhD	University of Connecticut Health Center	MDCN
Emanuel B. Hey, PhD	Rutgers University	GNS
William S. Hiavacek, PhD	Los Alamos National Laboratory	IMM
Linda A. Hicke, PhD	Northwestern University	CDF
Manuel Hidalgo, MD, PhD	Johns Hopkins University	ONC
Abd Al-Roof Higazi, MD	University of Pennsylvania	CDF
Stephen T. Higgins, PhD	University of Vermont	BBBBP
Russell D. Hilf, PhD	University of Rochester	ONC
David L. Hill, PhD	University of Virginia	IFCN
Shirley Y. Hill, PhD	University of Pittsburgh	HOP
Cecilia J. Hillard, PhD	Medical College of Wisconsin	MDCN
Argye E. Hillis, MD	Johns Hopkins University	BBBBP
Christine L. Himes, PhD	Syracuse University	HOP
Phillip W. Hinds, PhD	Tufts University, Boston	CDF
Charles H. Hinkin, PhD	Brentwood Biomedical Research Institute	AARR
Thomas H. Hintze, PhD	New York Medical College	ENR
Catarina E. Hioe, PhD	Veterans Affairs Medical Center	AARR
Emmet Hirsch, MD	Evanston Northwestern Healthcare Research Institute	ENR
Jeanne P. Hirsch, PhD	Mount Sinai School of Medicine	IDM
John Hiscott, MD, PhD	McGill University Jewish General Hospital	IDM

Gloria Y. Ho, PhD	Albert Einstein College of Medicine, Yeshiva University	HOP
Rodney J. Ho, PhD	University of Washington	ONC
Oliver Hobert, PhD	Columbia University College of Physicians and Surgeons	MDCN
Jan B. Hoek, PhD	Thomas Jefferson University	PPS
David W. Hoffman, PhD	University of Texas	BPC
Gloria E. Hoffman, PhD	University of Maryland School of Medicine	ENR
Polly A. Hofmann, PhD	University of Tennessee, Memphis	CDF, CVS
Dennis P. Hogan, PhD	Brown University	HOP
Michael C. Hogan, PhD	University of California	PPS
Kris Hogquist, PhD	University of Minnesota	IMM
Carl K. Hoh, MD	University of California, San Diego	SRB
Barbara J. Holder, PhD	New York University	HOP
Andrij Holian, PhD	University of Montana	PPS
Eric C. Holland, MD, PhD	Sloan-Kettering Institute For Cancer Research	ONC
William K. Holloman, PhD	Cornell University Medical Center	GNS
Theodore R. Holman, PhD	University of California, Santa Cruz	BPC
Gregory L. Holmes, MD	Dartmouth College	BDCN
Christine E. Holt, PhD	University of California, San Diego	MDCN
Victoria L. Holt, PhD	Fred Hutchinson Cancer Research Center	HOP
David M. Holtzman, MD	Washington University School of Medicine	MDCN
George G. Holz, PhD	New York University School of Medicine	NMS
Mei Hong, PhD	Iowa State University	BPC
Kenneth W. Horch, PhD	University of Utah	MSD
Peter J. Hornsby, PhD	University of Texas Health Science Center at San Antonio	ENR
Robert Horowitz, PhD	National Institutes of Health	CDF
Jay D. Horton, MD	University of Texas Southwestern Medical Center at Dallas	NMS
Jonathan C. Horton, MD, PhD	University of California, San Francisco	IFCN
Curt M. Horvath, MD, PhD	Mount Sinai School of Medicine	BCS
Barbara A. Horwitz, PhD	University of California	PPS
Lindsay Hough, PhD	Albany Medical College	IFCN
Janet A. Houghton, PhD	St. Jude Children's Research Hospital	ONC
Peter J. Houghton, PhD	St. Jude Children's Research Hospital	ONC
Thomas A. Houpt, PhD	Florida State University	BBBP
James S. House, PhD	University of Michigan at Ann Arbor	HOP
Marthe J. Howard, PhD	Medical College of Ohio at Toledo	MDCN
Amy R. Howell, PhD	University of Connecticut, Storrs	BPC
James A. Hoxie, MB, MD	University of Pennsylvania	AARR
William J. Hoyer, PhD	Syracuse University	BBBP
Robert A. Hromas, MD	University of New Mexico, Albuquerque	CVS
Victor J. Hruby, PhD	University of Arizona	MDCN
Tao-Shih Hsieh, PhD	Duke University Medical Center	GNS
Chung Y. Hsu, MD, PhD	Washington University	BDCN
Li Hsu, PhD	Fred Hutchinson Cancer Research Center	HOP
Ming Hu, PhD	Washington State University	ONC
Leaf P. Huang, PhD	University of Pittsburgh	BPC
Paul L. Huang, MD, PhD	Massachusetts General Hospital	CVS
Peng Huang, PhD	Medical University of South Carolina	BDCN, ONC
Nicholas V. Hud, PhD	Georgia Institute of Technology	BPC
James I. Hudson, MD	Harvard University Medical School	HOP
Laurie G. Hudson, PhD	University of New Mexico Health Sciences Center	ONC
Richard R. Hudson, PhD	University of Chicago	GNS
James J. Hudziak, MD	University of Vermont	BBBP
John P. Huelsenbeck, PhD	University of Rochester	GNS
Vicki D. Huff, PhD	University of Texas M.D. Anderson Cancer Center	GNS
Christopher C. Hughes, PhD	University of California, Irvine	CVS
Diane Hughes, PhD	New York University	RPHB
Jeffrey A. Hughes, PhD	University of Florida	BCS
John R. Hughes, MD	University of Vermont College of Medicine	HOP
Tonda L. Hughes, PhD	University of Illinois at Chicago	HOP
Frederick M. Hughson, PhD	Princeton University	CDF

David Y. Hui, PhD	University of Cincinnati	NMS
Jon M. Huibregtse, PhD	University of Texas	BCS
David Huizinga, PhD	University of Colorado	RPHB
W. Gregory Hundley, MD	Wake Forest University	CVS
Arthur G. Hunt, PhD	University of Kentucky	CDF
George W. Huntley, PhD	Mount Sinai School of Medicine	MDCN
Thomas D. Hurley, PhD	Indiana University-Purdue University, Indianapolis	PPS
Steven R. Hursh, PhD	Walter Reed Army Institute of Research	BBBBP
Jean A. Hurteau, MD	University of Chicago	ENR
Eric L. Hurwitz, DC, PhD	University of California, Los Angeles	MSD
Jerard Hurwitz, PhD	Sloan-Kettering Institute For Cancer Research	BCS
M. M. Hussain, PhD	State University of New York Downstate Medical Center	NMS
Andrea M. Hussong, PhD	University of North Carolina, Chapel Hill	HOP
Jill E. Hutchcroft, PhD	Purdue University	IMM
Boi-Hanh V. Huynh, PhD	Emory University	BPC
Adnan A. Hyder, DRPH, MD	Johns Hopkins University	AARR
Andrew Hyland, PhD	Roswell Park Cancer Institute	HOP
William L. Hylander, DDS, PhD	Duke University	MSD
Kullervo H. Hynynen, PhD	Brigham and Women's Hospital	SRB
Nicholas S. Ialongo, PhD	Johns Hopkins University	HOP
Joseph Ibrahim, PhD	University of North Carolina, Chapel Hill	HOP
Stephen R. Ikeda, MD, PhD	Guthrie Foundation For Education and Research	MDCN
Noriaki Ikemoto, PhD	Boston Biomedical Research Institute	CVS
Nicholas P. Illsley, PhD	University of Medicine and Dentistry of New Jersey	ENR
John D. Imig, PhD	Tulane University	CVS
James A. Imlay, PhD	University of Illinois	IDM
Alka Indurkha, PhD	Harvard University School of Public Health	RPHB
Roger W. Innes, PhD	Indiana University	CDF
Edward W. Inscho, PhD	Medical College of Georgia	CVS
Karl L. Insogna, MD	Yale University School of Medicine	MSD
Charles E. Inturrisi, PhD	Weill Medical College of Cornell University	MDCN
Gail Ironson, MD, PhD	University of Miami, Coral Gables	AARR
Jeffrey S. Isaacson, PhD	University of California, San Diego	IFCN
Harriet C. Isom, PhD	Pennsylvania State University College of Medicine	ONC, PPS
Gary A. Iwamoto, PhD	University of Illinois at Urbana-Champaign	PPS
Joseph A. Izatt, PhD	Duke University	SRB
Clifford R. Jack, MD	Mayo Clinic, Rochester	BDCN
F. Rob Jackson, PhD	Tufts University School of Medicine	MDCN
Peter K. Jackson, PhD	Stanford University	CDF
William F. Jackson, PhD	Western Michigan University	CVS
Barry L. Jacobs, PhD	Princeton University	IFCN
Bertram L. Jacobs, DSc, PhD	Arizona State University	IDM
Christopher R. Jacobs, PhD	Stanford University	MSD
Steven J. Jacobsen, MD	Mayo Clinic, Rochester	HOP
Allan S. Jacobson, PhD	PTC Therapeutics, Inc	BCS
Geoffrey M. Jacquez, PhD	Biomedware	HOP
Pudur Jagadeeswaran, PhD	University of Texas Health Science Center	CVS
Bradford A. Jameson, PhD	Drexel University	IMM
Larry D. Jamner, PhD	University of California, Irvine	BBBBP
Paul A. Janmey, PhD	University of Pennsylvania	CDF
Yvonne M.W. Janssen-Heininger, PhD	University of Vermont and State Agricultural College	PPS
Anthony J. Japour, MD	Beth Israel Deaconess Medical Center	AARR
Erich D. Jarvis, PhD	Duke University Medical Center	BBBBP
Maria Jasin, PhD	Sloan-Kettering Institute For Cancer Research	BCS, GNS
Guillermina Jasso, PhD	New York University	HOP
Ronald T. Javier, PhD	Baylor College of Medicine	IDM
Jonathan A. Javitch, MD, PhD	Columbia University	MDCN
Daniel C. Javitt, MD, PhD	New York University	BDCN
Diane F. Jelinek, PhD	Mayo Clinic, Rochester	IMM
Bhanu P. Jena, PhD	Wayne State University	BPC

Meei-Huey Jeng, PhD	Indiana University-Purdue University, Indianapolis	ENR
Lothar H. Jennes, PhD	University of Kentucky	MDCN
Peter E. Jensen, MD, PhD	Emory University	IMM
Robert E. Jensen, PhD	Johns Hopkins University School of Medicine	CDF
Hal B. Jenson, MD	Eastern Virginia Medical School	AARR
Thomas R. Jerrells, PhD	University of Nebraska Medical Center	PPS
D. Joseph Jerry, PhD	University of Massachusetts, Amherst	ONC
Algirdas J. Jesaitis, PhD	Montana State University, Bozeman	CVS, HEME
John M. Jessup, MD	Georgetown University	ONC
Tae H. Ji, PhD	University of Kentucky	ENR
Yishi Jin, PhD	University of California, Santa Cruz	MDCN
Michael Jirousek, PhD	Pfizer, Inc	BPC
Hanjoong Jo, PhD	Georgia Institute of Technology	CVS
Candace S. Johnson, MD, PhD	Roswell Park Cancer Institute	ONC
David G. Johnson, PhD	University of Texas M.D. Anderson Cancer Center	CDF
Eric F. Johnson, PhD	Scripps Research Institute	BPC, PPS
Erica S. Johnson, PhD	Thomas Jefferson University	BCS
Jane E. Johnson, PhD	University of Texas Southwestern Medical Center at Dallas	MDCN
Jeffrey A. Johnson, PhD	University of Wisconsin, Madison	IFCN
Keith A. Johnson, MD, PhD	Ohio State University	BBBP
Marcia K. Johnson, PhD	Yale University	IFCN
Randy S. Johnson, PhD	University of California, San Diego	ONC
Wayne A. Johnson, PhD	University of Iowa	MDCN
William G. Johnson, MD, PhD	Arizona State University	HOP
Daniel Johnston, PhD	Baylor College of Medicine	IFCN
Iain M. Johnstone, PhD	Stanford University	HOP
Rolf H. Joho, PhD	University of Texas Southwestern Medical Center at Dallas	MDCN
Paul Jolicoeur, MD, PhD	Clinical Research Institute of Montreal	AARR
Pauline E. Jolly, PhD	University of Alabama at Birmingham	AARR
G. Miller Jonakait, PhD	New Jersey Institute of Technology	MDCN
Jonathan C. Jones, PhD	Northwestern University	CDF
Keith A. Jones, MD	Mayo Clinic, Rochester	CVS, PPS
Mari R. Jones, PhD	Ohio State University	BBBP
Roy B. Jones, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Stephen C. Jones, PhD	Allegheny-Singer Research Institute	BDCN
Richard C. Jordan, DDS, PhD	University of California, San Francisco	MSD
Sharon L. Juliano, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	MDCN
Douglas A. Julin, PhD	University of Maryland, College Park	BCS
Donald B. Jump, MD, PhD	Michigan State University	NMS
Richard P. Junghans, MD, PhD	Beth Israel Deaconess Medical Center	SRB
Louis B. Justement, PhD	University of Alabama at Birmingham	IMM
Monica J. Justice, PhD	Baylor College of Medicine	GNS
Dov Kadmon, MD	Baylor College of Medicine	ONC
Robert J. Kadner, PhD	University of Virginia	IDM
Charlotte S. Kaetzel, PhD	University of Kentucky Medical Center	IMM
Michael J. Kahana, PhD	Brandeis University	BBBP
Mark L. Kahn, MD	University of Pennsylvania	CVS
Michael A. Kahn, DDS	Tufts University	MSD
Robert V. Kail, PhD	Purdue University	BBBP
Ursula B. Kaiser, MD	Brigham and Women's Hospital	ENR
Spyros A. Kalams, MD	Vanderbilt University	AARR
Seth C. Kalichman, PhD	University of Connecticut, Storrs	AARR
Charles W. Kalish, PhD	University of Wisconsin, Madison	BBBP
Ganjam V. Kalpana, PhD	Albert Einstein College of Medicine, Yeshiva University	AARR
Balaraman Kalyanaraman, PhD	Medical College of Wisconsin	CVS
M. Ilyas Kamboh, PhD	University of Pittsburgh	HOP
Roger D. Kamm, PhD	Massachusetts Institute of Technology	PPS, SRB
Marty S. Kanarek, PhD	University of Wisconsin, Madison	HOP
Konstantin V. Kandror, PhD	Boston University School of Medicine	BCS, NMS
Cynthia J.M. Kane, PhD	University of Arkansas For Medical Sciences	IFCN

Patricia M. Kane, PhD	State University of New York Upstate Medical University	BPC
Jagmeet S. Kanwal, PhD	Georgetown University Medical Center	IFCN
Nancy G. Kanwisher, PhD	Massachusetts Institute of Technology	IFCN
Cheng C. Kao, PhD	Indiana University, Bloomington	IDM
Joseph P. Kao, PhD	University of Maryland	CDF
Geoffrey M. Kapler, PhD	Texas A&M University	GNS
Claudia T. Kappen, PhD	University of Nebraska Medical Center	MSD
John W. Kappler, PhD	National Jewish Medical and Research Center	IMM
Vivek Kapur, PhD	University of Minnesota, Twin Cities	GNS
David Karasik, PhD	Hebrew Rehabilitation Center For Aged	MSD
Gregory S. Karczmar, PhD	Pritzker School of Medicine	ONC
Andrew Karellas, PhD	Emory University Hospital	SRB
Bernard Z. Karmel, PhD	Institute For Basic Research In Developmental Disabilities	BBBP
Jonathan Karn, PhD	Case Western Reserve University	AARR
Sadashiva S. Karnik, PhD	Cleveland Clinic Foundation	CVS
Rathe Karrer, PhD	Kansas University Medical Center	IFCN
Theodore Karrison, MD, PhD	University of Chicago	ONC
Cary S. Kart, PhD	Miami University, Oxford	HOP
Fatah Kashanchi, PhD	George Washington University	AARR
Angela D. Kashuba,	University of North Carolina, Chapel Hill	AARR
Susan Kasper, PhD	Vanderbilt University	ENR
S. Ghassan Kassab, PhD	University of California	SRB
Amin I. Kassis, MD, PhD	Harvard University Medical School	ONC
David F. Katz, PhD	Duke University	ENR
Howard R. Katz, PhD	Brigham and Women's Hospital	IMM
Jonathan D. Katz, PhD	Children's Hospital Medical Center, Cincinnati	IMM
Steven J. Katz, MD	University of Michigan	HOP
Benita S. Katzenellenbogen, PhD	University of Illinois at Urbana-Champaign	ONC
Laurence Katznelson, MD	Massachusetts General Hospital	MSD
Dixon B. Kaufman, MD, PhD	Northwestern University	SRB
Howard L. Kaufman, MD	Columbia University Health Science Center	ONC
Randal J. Kaufman, PhD	University of Michigan at Ann Arbor	BCS
Thomas C. Kaufman, PhD	Indiana University	GNS
Scott H. Kaufmann, MD, PhD	Mayo Clinic, Rochester	ONC
Scott W. Kauma, MD	Virginia Commonwealth University	ENR
Jonathan D. Kaunitz, MD	Brentwood Biomedical Research Institute	PPS
Kenneth Kaushansky, MD	University of Washington	ONC
Mark A. Kay, MD, PhD	Avigen	BCS
Jonathan G. Kaye, PhD	Scripps Research Institute	IMM
Kenneth M. Kaye, MD	Brigham and Women's Hospital	AARR
Marcelo G. Kazanietz, PhD	University of Pennsylvania	ONC
Haig H. Kazazian, MD, PhD	University of Pennsylvania	GNS
James W. Kazura, MD, PhD	Case Western Reserve University	IDM
Paul J. Keall, PhD	Virginia Commonwealth University	ONC
John F. Keaney, MD	Boston University	CVS
Tony M. Keaveny, PhD	University of California, Berkeley	MSD
Fred W. Keeley, PhD	Hospital For Sick Children	BCS
Carl L. Keen, PhD	University of California, Davis	PPS
Joyce N. Keifer, PhD	University of South Dakota	IFCN
David J. Keller, PhD	University of New Mexico	BPC
Evan T. Keller, DVM, MD	University of Michigan at Ann Arbor	PPS
Gordon M. Keller, PhD	Mount Sinai School of Medicine	CVS
Richard A. Keller, PhD	University of California Los Alamos National Laboratory	BPC
Maureen E. Keller-Wood, PhD	University of Florida	ENR
Margaret S. Kelley, PhD	University of Oklahoma, Norman	AARR
Matthew W. Kelley, PhD	National Institute On Deafness and Other Communication Disorders	MDCN
Daniel P. Kelly, MD	Washington University	CVS
Kevin M. Kelly, MD, PhD	Allegheny-Singer Research Institute	BDCN
Sandra J. Kelly, PhD	University of South Carolina	IFCN
Karl T. Kelsey, MD	Harvard University School of Public Health	MSD

Byron W. Kemper, PhD	University of Illinois at Champaign	BPC
Donald S. Kenkel, PhD	National Bureau of Economic Research	HOP
Stephen B. Kennedy, MD	Pacific Institute For Research and Evaluation	AARR
Michael J. Kenney, PhD	Kansas State University	CVS
W. L. Kenney, PhD	Pennsylvania State University	PPS
Robert S. Kerbel, PhD	Sunnybrook and Women's College Health Sciences Center	ONC
Philip A. Kern, MD, PhD	John L. McClellan Memorial Veterans Hospital	NMS
D. Casey Kerrigan, MD	University of Virginia School of Medicine	MSD
Lakshmyya N. Kesavalu, DVM	University of Kentucky	MSD
Martin Kessel, PhD	National Cancer Institute	BPC
Daniel S. Kessler, PhD	University of Pennsylvania	MDCN
John A. Kessler, MD	Northwestern University	MDCN
Mark Kester, PhD	Pennsylvania State University	BCS
Gary W. Ketner, PhD	Johns Hopkins University	IDM
Farah Kheradmand, MD	Baylor College of Medicine	PPS
Alexey L. Khodjakov, PhD	Wadsworth Center	CDF
Alexander Khoruts, MD	University of Minnesota	IMM
Sundeep Khosla, MD	Mayo Clinic, Rochester	MSD
Elliott D. Kieff, MD, PhD	Brigham and Women's Hospital	IDM
John F. Kihlstrom, PhD	University of California, Berkeley	BBBP
Ron Kikinis, MD	Brigham and Women's Hospital	SRB
Gary J. Killian, PhD	Pennsylvania State University	ENR
Junhyong Kim, PhD	University of Pennsylvania	IMM, MDCN
Marek Kimmel, PhD	Rice University	HOP
Paul L. Kimmel, MD	George Washington University	AARR
Peter J. Kincaid, PhD	University of Central Florida	HOP
Paul R. Kinchington, PhD	University of Pittsburgh	IDM
Mark S. Kindy, MD, PhD	United States Department of Veterans Affairs Medical Center, Charleston	CVS
Rhonda D. Kineman, PhD	University of Illinois at Chicago	ENR
Jean A. King, PhD	University of Massachusetts Medical School, Worcester	BBBP
Jonathan W. King, PhD	Massachusetts Institute of Technology	BBBP
Philip D. King, PhD	University of Michigan at Ann Arbor	IMM
Lawrence A. Kingsley, DPH	University of Pittsburgh	AARR
Sue C. Kinnamon, PhD	Colorado State University	IFCN
Hannah C. Kinney, MD	Children's Hospital, Boston	MDCN
Jennifer M. Kinney, PhD	Miami University	HOP
William H. Kinsey, PhD	University of Kansas Medical Center	ENR
Terri G. Kinzy, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	BCS
Margaret L. Kirby, PhD	Duke University	CVS
Robert F. Kirsch, PhD	Case Western Reserve University	MSD
Daniel A. Kirschner, PhD	Boston College	BPC
Bellamkonda K. Kishore, MBBS, MD	University of Utah	CVS
Jessica Kissinger, PhD	University of Georgia	AARR
Patricia J. Kissinger, PhD	Louisiana State University Health Sciences Center, New Orleans	AARR
Hiroaki Kiyokawa, MD, PhD	University of Illinois at Chicago	ONC
Thomas R. Klei, PhD	Louisiana State University	IDM
Jon B. Klein, MD, PhD	University of Louisville	MSD
Robert F. Klein, MD	Oregon Health and Science University	MSD
William H. Klein, PhD	University of Texas M.D. Anderson Cancer Center	CDF
Eugenie S. Kleinerman, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Kenneth P. Kleinman, ScD	Harvard University Medical School	HOP
Richard L. Klemke, PhD	Scripps Research Institute	CDF
Dwight J. Klemm, PhD	University of Colorado Health Sciences Center	NMS
Carolyn M. Klinge, PhD	University of Louisville School of Medicine	ENR
Laura G. Klinger, PhD	University of Alabama at Tuscaloosa	BBBP
Robert A. Kloner, MD, PhD	Good Samaritan Hospital	CVS
Susan J. Knox, MD, PhD	Stanford University	ONC
Warren Knudson, PhD	Rush-Presbyterian-St. Luke's Medical Center	MSD
Mark M. Knuepfer, PhD	St. Louis University	CVS
Gerd Kobal, MD, PhD	WSA Phillip Morris, USA	IFCN

Brian K. Kobilka, MD	Stanford University Medical Center	CVS
Grazyna Kochanska, PhD	University of Iowa	RPHB
Irene E. Kochevar, PhD	Massachusetts General Hospital	BPC
Jeffery D. Kocsis, PhD	Yale University	MDCN
Thomas J. Kodadek, PhD	University of Texas Southwestern Medical Center at Dallas	BPC
Carla M. Koehler, PhD	University of California, Los Angeles	CDF
Ronald J. Koenig, MD, PhD	University of Michigan at Ann Arbor	ENR
H. R. Koerber, PhD	University of Pittsburgh	IFCN
Ronald A. Kohanski, PhD	Johns Hopkins University	NMS
Heinz Kohler, MD, PhD	Markey Cancer Center	AARR
David H. Kohn, PhD	University of Michigan at Ann Arbor	MSD
John G. Koland, PhD	University of Iowa	ONC
Helga Kolb, PhD	University of Utah	IFCN
Dennis L. Kolson, MD, PhD	University of Pennsylvania	AARR
Richard W. Komuniecki, PhD	University of Toledo	IDM
Maria M. Konarska, PhD	The Rockefeller University	CDF
Joseph P. Konopelski, PhD	University of California	BPC
Christopher D. Kontos, MD	Duke University	CVS
James S. Koopman, MD	University of Michigan at Ann Arbor	AARR
Raphael Kopan, PhD	Washington University	CDF
Dennis J. Kopecko, PhD	Walter Reed Army Medical Center	IDM
Murray Korc, MD, PhD	Dartmouth College	ONC
Helen M. Korchak, PhD	Children's Hospital of Philadelphia	CVS
Alan P. Koretsky, PhD	National Institute of Neurological Disorders and Stroke	IMM
Gary A. Koretzky, MD, PhD	University of Pennsylvania School of Medicine	IMM
Thomas B. Kornberg, PhD	University of California, San Francisco	MDCN
Robert Korngold, PhD	Thomas Jefferson University	ONC
Douglas E. Koshland, PhD	Carnegie Institution of Washington, DC	BCS
Michele M. Kosiewicz, PhD	University of Louisville	IMM
Michael I. Kotlikoff, PhD, VMD	Cornell University, Ithaca	CVS, PPS
Julia A. Kovacs, PhD	University of Washington	BPC
Sandor J. Kovacs, MD, PhD	Washington University	SRB
Michael H. Koval, PhD	University of Pennsylvania	CDF
Danuta B. Kozbor, PhD	Roswell Park Cancer Institute	AARR
Gary W. Kraemer, PhD	University of Wisconsin, Madison	BBBBP
Rosemary Kraemer, PhD	Weill Medical College of Cornell University	CVS
Adrian R. Krainer, PhD	Cold Spring Harbor Laboratory	CDF
Andrew M. Kramer, MD	University of Colorado	MSD
Arthur F. Kramer, PhD	University of Illinois at Urbana-Champaign	IFCN
Richard Kramer, MD, PhD	Duke University	MDCN
Sheri M. Krams, MD, PhD	Stanford University	IMM
Robert G. Kranz, PhD	Washington University	IDM
Wanda Krassowska, PhD	Duke University	SRB
Duncan C. Krause, PhD	University of Georgia	IDM
Michael W. Krause, PhD	National Institute of Diabetes and Digestive and Kidney Diseases	GNS
Kevin C. Kregel, PhD	University of Iowa	MSD
Jordan A. Kreidberg, PhD	Children's Hospital, Boston	MSD
Martin E. Kreitman, PhD	University of Chicago	GNS
Judith F. Kroll, PhD	Pennsylvania State University, University Park	BBBBP
Amy Kronenberg, DSc, ScD	Lawrence Berkeley National Laboratory	ONC
Mitchell E. Kronenberg, PhD	La Jolla Institute For Allergy and Immunology	IMM
Marie A. Krousel-Wood, MD	Ochsner Clinic Foundation	HOP
Leah A. Krubitzer, PhD	University of California, Davis	IFCN
Matthew F. Krummel, PhD	University of California, San Francisco	IMM
Carol A. Kruse, PhD	University of Colorado Health Sciences Center	IMM
Chia-Yi Kuan, MD, PhD	Children's Hospital Medical Center, Cincinnati	MDCN
Leszek K. Kubin, PhD	University of Pennsylvania	PPS
Moses Kuchnir, PhD	Fermi National Accelerator Laboratory	BPC
Dean O. Kuethe, PhD	New Mexico Resonance	SRB
Michael J. Kuhar, PhD	Emory University	MDCN

Cynthia M. Kuhn, MD, PhD	Duke University	MDCN
Athan Kuliopulos, MD, PhD	Tufts University, Boston	HEME
Dietmar Kultz, PhD	University of California, Davis	MSD
Anand Kumar, MD	University of California, Los Angeles	BDCN
Krishna Kumar, PhD	Tufts University, Medford	BPC
Mahendra Kumar, PhD	University of Miami School of Medicine	AARR
Nirbhay Kumar, PhD	Johns Hopkins University	IDM
Rajiv M. Kumar, MBBS, MD	Mayo Clinic, Rochester	ENR
Rakesh F. Kumar, MD, PhD	University of Texas M.D. Anderson Cancer Center	ENR
Samuel T. Kuna, MD	University of Pennsylvania	PPS
Sam Kunes, PhD	Harvard University	MDCN
Paul C. Kuo, MD	Duke University	SRB
Tien Kuo, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Jerzy W. Kupiec-Weglinski, MD, PhD	University of California, Los Angeles	IMM
Periannan Kuppusamy, PhD	Ohio State University	SRB
Eugene D. Kwon, MD, PhD	Mayo Clinic, Rochester	ONC
Natasha Kyprianou, PhD	University of Kentucky	ONC
Andrew R. La Barbera, PhD	University of Cincinnati	ENR
Robert H. La Motte, PhD	Yale University	IFCN
Lawrence B. Lachman, PhD	University of Texas M.D. Anderson Cancer Center	AARR
Stephan K. Ladisch, MD	Children's Research Institute	ONC
Mary J. Ladu, PhD	Evanston Northwestern Healthcare Research Institute	MDCN
Debomoy K. Lahiri, PhD	Indiana University School of Medicine	MDCN
Robert S. Lahue, PhD	University of Nebraska Medical Center	BCS, ONC
Cary H. Lai, PhD	Scripps Research Institute	MDCN
Laimonis A. Laimins, PhD	Northwestern University	IDM
Raj Lakshman, PhD	George Washington University	PPS
Joseph C. Lamanna, PhD	Case Western Reserve University	PPS
Dolores Lamb, PhD	Baylor College of Medicine	ENR
Richard J. Lamb, PhD	University of Texas Health Science Center	BBBBP
J. David Lambeth, MD, PhD	Emory University School of Medicine	IMM
Elizabeth B. Lamont, MD	University of Chicago	HOP
Jack R. Lancaster, PhD	University of Alabama at Birmingham	NMS
Nathaniel R. Landau, PhD	Salk Institute For Biological Studies	AARR
David Landsman, PhD	National Library of Medicine	GNS
Michael S. Landy, PhD	New York University	IFCN
Pascale H. Lane, MD	University of Nebraska Medical Center	MSD
Richard D. Lane, MD, PhD	Medical College of Ohio at Toledo	BBBBP
Charles H. Lang, PhD	Pennsylvania State University	AARR
Fran Lang, PhD	Washington University	BBBBP
James C. Lang, PhD	Ohio State University	MSD
Carol A. Lange, PhD	University of Minnesota, Twin Cities	ENR, ONC
Christian P. Larsen, MD, PhD	Emory University	SRB
Reed P. Larsen, MD	Brigham and Women's Hospital	ENR
Steven M. Larson, MD, PhD	Memorial Sloan-Kettering Cancer Center.	IMM
Edmund C. Lattime, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	ONC
Alan F. Lau, PhD	University of Hawaii at Manoa	CDF
Gilles Laurent, PhD	California Institute of Technology	IFCN
Jennifer H. Lavail, PhD	University of California, San Francisco	IDM
Larry A. Lavery,	Diabetex, LLC	MSD
Mary C. Lawlor, ScD	University of Southern California	BBBBP
Daniel A. Lawrence, MD, PhD	Gordon Research Conferences	CVS
Theodore S. Lawrence, MD, PhD	University of Michigan at Ann Arbor	ONC
Mitchell A. Lazar, MD, PhD	University of Pennsylvania School of Medicine	ENR
Michelle M. Le Beau, PhD	University of Chicago	ONC
Steven D. Leach, MD	Johns Hopkins University	NMS
Daniel J. Leahy, MD, PhD	Johns Hopkins University	BCS
Richard M. Leahy, PhD	University of Southern California	SRB
Andrew D. Leavitt, MD	University of California, San Francisco	HEME
Dennis D. Leavitt, PhD	University of Utah	ONC

Tucker W. Lebien, PhD	University of Minnesota Cancer Center	ONC
Andrea C. Leblanc, PhD	McGill University	MDCN
James D. Lechleiter, PhD	University of Texas Health Science Center	CDF
Juliette T. Lecomte, PhD	Pennsylvania State University	BPC
Robert W. Ledeen, PhD	University of Medicine and Dentistry of New Jersey	MDCN
Brendan Lee, MD, PhD	Baylor College of Medicine	BCS
Gwo-Shu Mary Lee, PhD	New York University	IDM
Jiing-Dwan Lee, PhD	Scripps Research Institute	IMM
Kathryn A. Lee, PhD	University of California, San Francisco	RPHB
Kelvin P. Lee, MD	University of Miami School of Medicine	ONC
Marietta Y. Lee, PhD	New York Medical College	CDF
Martha B. Lee, PhD	University of California	AARR
Mary Gwo-Shu Lee, PhD	New York University	IDM
Michael K. Lee, PhD	Johns Hopkins University School of Medicine	CVS
Richard T. Lee, MD	Brigham and Women's Hospital	CVS
Sam W. Lee, PhD	Beth Israel Deaconess Medical Center	ONC
W. R. Lee, MD	Wake Forest University Health Sciences	ONC
Jacqueline A. Lees, PhD	Massachusetts Institute of Technology	CDF
Frances B. Lefcort, PhD	Montana State University, Bozeman	MDCN
Richard S. Legro, MD	Pennsylvania State University	ENR
David A. Leib, PhD	Washington University	IDM
Joseph S. Leibovich, PhD	New Jersey Medical School	CVS
Samuel J. Leibovich, PhD	New Jersey Medical School	CVS
James L. Leighton, PhD	Columbia University	BPC
Leslie A. Leinwand, PhD	Keystone Symposia	CVS
Vijay M. Lella, PhD	University of Texas at Tyler	HEME
Sandra K. Lemmon, PhD	University of Miami School of Medicine	IDM
Peter S. Lennie, PhD	New York University	IFCN
Fred A. Lenz, MD, PhD	Johns Hopkins University	IFCN
Jack R. Lenz, PhD	Albert Einstein College of Medicine, Yeshiva University	IDM
Mark F. Lenzenweger, PhD	State University of New York at Binghamton	BBBBP
Edward B. Leof, PhD	Mayo Clinic, Rochester	ONC
Christopher S. Leonard, PhD	New York Medical College	IFCN
Mary B. Leonard, MD	Children's Hospital of Philadelphia	HOP
Neocles B. Leontis, PhD	Bowling Green State University	BPC
Edith Lerner, PhD	Case Western Reserve University	MSD
Richard A. Lerner, MD	Scripps Research Institute	IMM
Kimberly K. Leslie, MD	University of New Mexico, Albuquerque	ENR
Barry M. Lester, PhD	Emma Pendleton Bradley Hospital	BBBBP
Paul C. Letourneau, PhD	University of Minnesota	MDCN
Carl G. Leukefeld	University of Kentucky	HOP
Lawrence L. Leung, MD	Stanford University	HEME
David L. Levens	National Cancer Institute	GNS
Marc E. Levenston, PhD	Georgia Institute of Technology	MSD
Joseph R. Leventhal, MD, PhD	Northwestern University	IMM
Marc C. Levesque, MD, PhD	Duke University	IMM
Harvey S. Levin, MD, PhD	Baylor College of Medicine	BBBBP
Lonny R. Levin, PhD	Cornell University	ENR
Alan D. Levine, PhD	Case Western Reserve University	PPS
Michael S. Levine, PhD	State University of New York	CDF
Richard L. Levine, MD	Pennsylvania State University	MSD
Robert A. Levine, MD	Massachusetts General Hospital	SRB
Douglas F. Levinson, MD	University of Pennsylvania	HOP
Stephen F. Levinson, MD, PhD	University of Rochester	SRB
Jonathan B. Levitt, PhD	City College of New York	IFCN
Stuart M. Levitz, MD	Boston Medical Center	IDM
Thomas K. Lewellen, PhD	University of Washington Medical Center	SRB
Peter M. Lewinsohn, PhD	Oregon Research Institute	BBBBP
Elaine J. Lewis, PhD	Oregon Health and Science University	MDCN
Jill B. Lewis, PhD	Medical College of Georgia	MSD

Mitchell Lewis, PhD	University of Pennsylvania	BPC
William Lewis, MD	Emory University	PPS
Eugene J. Leys, PhD	Ohio State University	MSD
Fuzhong Li, PhD	Oregon Research Institute	MSD
Guo-Min Li, PhD	University of Kentucky	BCS
Joachim J. Li, PhD	University of California	CDF
Jonathan J. Li, PhD	University of Kansas Medical Center	ONC
Luyuan Li, PhD	University of Pittsburgh	ONC
Jane B. Lian, PhD	University of Massachusetts Medical School, Worcester	CVS, MSD
James K. Liao, MD	Brigham and Women's Hospital	CVS
Warren S. Liao, PhD	University of Texas M.D. Anderson Cancer Center	BCS
Xiubei Liao, PhD	University of Illinois at Chicago	HEME
Howard L. Liber, PhD	Colorado State University	ONC
Israel Liberzon, MD	University of Michigan	BBBP
Robert C. Liddington, PhD	Burnham Institute	BCS, IDM
Alicia F. Lieberman, PhD	University of California	RPHB
Jay R. Lieberman, MD	University of California, Los Angeles	MSD
Paul M. Lieberman, PhD	Wistar Institute	IDM
Dan A. Liebermann, PhD	Temple University School of Medicine	CVS
Lanny S. Liebeskind, PhD	Emory University	BPC
Susan W. Liebman, PhD	University of Illinois at Chicago	GNS
Anthony Liguori, PhD	Wake Forest University Health Sciences	BBBP
Laura E. Lillien, PhD	University of Pittsburgh	MDCN
Christopher D. Lima, PhD	Weill Medical College of Cornell University	BCS
Patrick A. Limbach, PhD	University of Cincinnati	GNS
Anning Lin, MD, PhD	University of Chicago	CDF
Shuo Lin, PhD	University of California, Los Angeles	GNS
Xin Lin, PhD	State University of New York	IMM
Patrick Lincoln, PhD	SRI International	IMM
Manfred Lindau, PhD	Max Planck Institute For Medical Research	MDCN
Iris B. Lindberg, PhD	Louisiana State University Health Sciences Center, New Orleans	ENR
Michael R. Linden, PhD	Mount Sinai School of Medicine	IDM
Jennifer J. Linderman, PhD	University of Michigan	MDCN
Robert J. Linhardt, PhD	Rensselaer Polytechnic Institute	BPC
Jeanne M. Link, PhD	University of Washington	ONC
Thomas Linkhart, PhD	Loma Linda University	MSD
Jonathan M. Links, PhD	Johns Hopkins University	SRB
Jean Ann Linney, PhD	University of South Carolina	HOP
Phyllis-Jean Linton, PhD	Sidney Kimmel Cancer Center	IMM, MSD
Stuart R. Lipsitz, DSc, PhD	Medical University of South Carolina	HOP
John T. Lis, PhD	Cornell University	CDF
Stephen G. Lisberger, PhD	University of California, San Francisco	IFCN
David G. Litaker, MD, PhD	Metrohealth Medical Center	HOP
Gary W. Litman, PhD	University of South Florida	IMM
Virginia M. Litwin, PhD	Progenics Pharmaceuticals, Inc	AARR
Brett T. Litz, PhD	National Center For Posttraumatic Stress Disorder	BBBP
Dexi Liu, PhD	University of Pittsburgh	CVS
Fenyong Liu, PhD	University of California	AARR
Jun O. Liu, PhD	Johns Hopkins University	BPC
Paul P. Liu, PhD	National Human Genome Research Institute	CVS
Yang Liu, PhD	Ohio State University	IMM
Yun-Cai Liu, PhD	La Jolla Institute For Allergy and Immunology	IMM
Patricia J. Liwang, PhD	Texas A&M University	AARR
Richard E. Lloyd, PhD	Baylor College of Medicine	IDM
Gershon Y. Locker, MD	Evanston Northwestern Healthcare Research Institute	ONC
Joseph D. Locker, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	ONC
Daniel D. Loeb, PhD	University of Wisconsin, Madison	IDM
Edward L. Loechler, PhD	Boston University, Charles River Campus	ONC
Mary R. Loeken, MD, PhD	Joslin Diabetes Center	MDCN
Arthur D. Loewy, PhD	Washington University	CVS

Chris Loffredo, PhD	Georgetown University School of Medicine	HOP
Tk Logan, PhD	University of Kentucky	AARR
Peng Y. Loh, PhD	National Institute of Child Health and Human Development	ENR
Timothy M. Lohman, PhD	Washington University	BPC
John S. Lollar, MD	Emory University	CVS
Richard G. Long, PhD	Western Michigan University	IFCN
Nicola Longo, MD, PhD	University of Utah	MSD
A. Thomas Look, MD	Dana-Farber Cancer Institute	ONC
John R. Looney, MD	University of Rochester Medical Center	MSD
Jose L. Lopez-Ribot, PhD	University of Texas Health Science Center at San Antonio	AARR, IDM
Sarah E. Lord, PhD	Inflexxion, Inc	AARR
Joseph A. Lorenzo, MD	University of Connecticut School of Medicine and Dentistry	MSD
George H. Lorimer, PhD	University of Maryland	BPC
John W. Lough, PhD	Medical College of Wisconsin	CVS
Michael Lovett, PhD	Washington University	GNS
David M. Lovinger, PhD	National Institute On Alcohol Abuse and Alcoholism	MDCN
Malcolm J. Low, MD, PhD	Oregon Health and Science University	ENR
Philip S. Low, PhD	Purdue University	HEME
Phillip A. Low, MD	Mayo Clinic, Rochester	NMS
Todd L. Lowary, PhD	Ohio State University	BPC
Bradford B. Lowell, MD, PhD	Beth Israel Deaconess Medical Center	NMS
Clifford A. Lowell, MD, PhD	University of California, San Francisco	IMM
Pedro R. Lowenstein, MD, PhD	Cedars-Sinai Medical Center	MDCN
Hua Lu, MD, PhD	University of Chicago	ONC
Jian-Yu X. Lu, PhD	University of Toledo	SRB
Michael L. Lu, DVM, PhD	Brigham and Women's Hospital	ENR
Min Lu, PhD	Weill Medical College of Cornell University	AARR
John C. Lucchesi, PhD	Emory University	CDF
Pamela A. Lucchesi, PhD	University of Alabama at Birmingham	CVS
Steven J. Luck, PhD	University of Iowa	BDCN
Karolin Luger, PhD	Colorado State University	BPC
Aron E. Lukacher, MD, PhD	Emory University	IDM
Ronald J. Lukas, PhD	St. Joseph's Hospital and Medical Center	BDCN
Scott E. Lukas, PhD	Harvard University Medical School	BBBP
Nadya L. Lumelsky, PhD	University of Wisconsin, Madison	MDCN
Victoria J. Lundblad, PhD	Baylor College of Medicine	CDF
Erik A. Lundquist, PhD	University of Kansas	MDCN
Liqun Luo, PhD	Stanford University	MDCN
Ming Luo, PhD	University of Alabama at Birmingham	IDM
Carl R. Lupica, PhD	National Institute on Drug Abuse	IFCN
Thomas Luster, PhD	Michigan State University	HOP
Joseph Lustgarten, PhD	Sidney Kimmel Cancer Center	IMM
Suniya S. Luthar, PhD	Columbia University	RPHB
Joseph F. Lutkenhaus, PhD	University of Kansas Medical Center	IDM
Louis M. Luttrell, MD, PhD	Medical University of South Carolina	BCS
Robert L. Lux, PhD	University of Utah	SRB
Samuel E. Lux, MD	Children's Hospital, Boston	CVS
Ralph B. Lydic, PhD	University of Michigan at Ann Arbor	PPS
Carl Lynch, MD, PhD	University of Virginia, Charlottesville	SRB
Christopher J. Lynch, PhD	Pennsylvania State University College of Medicine	NMS
James C. Lynch, PhD	University of Nebraska Medical Center	ONC
Michael R. Lynch, PhD	Indiana University, Bloomington	GNS
Kelly Lyons, PhD	University of Miami	HOP
Michael J. Lyons, PhD	Boston University, Charles River Campus	HOP
Anna Lysakowski, PhD	University of Illinois at Chicago	IFCN
Grace X. Ma, PhD	Temple University	HOP
Sheng-Xing X. Ma, MD, PhD	Harbor-UCLA Research and Education Institute	IMM
John B. Macauley, PhD	Jackson Laboratory	GNS
Jean W. Maccluer, PhD	Southwest Foundation For Biomedical Research	HOP
Marcy E. Macdonald, PhD	Massachusetts General Hospital	BCS

Paul N. Macdonald, PhD	Case Western Reserve University	MSD
Raymond J. Macdonald, MD, PhD	University of Texas Southwestern Medical Center at Dallas	MSD
Richard G. Macdonald, PhD	University of Nebraska College of Medicine	ENR
Alexander D. Mackerell, PhD	University of Maryland Baltimore Professional School	BPC
Wendy B. Macklin, PhD	Cleveland Clinic Foundation	MDCN
Jeffrey D. Macklis, DSc, MD	Massachusetts General Hospital	MDCN
Nigel Mackman, PhD	Scripps Research Institute	CVS
Erich R. Mackow, PhD	State University of New York at Stony Brook	IDM
George A. Macones, MD	University of Pennsylvania	HOP
Charles F. Mactutus, PhD	University of South Carolina	BBBP
John J. Madden, PhD	Emory University	AARR
Theresa E. Madden, DDS, PhD	Oregon Health and Science University	MSD
Janine R. Maddock, PhD	University of Michigan	CDF
John M. Madison, MD	University of Massachusetts Medical School, Worcester	PPS
Jeffrey D. Madura, PhD	Duquesne University	BPC
Ronald R. Magness, MD, PhD	Federation of American Societies For Experimental Biology	ENR
Anita Mahadevan-Jansen, PhD	Vanderbilt University	SRB
Michael Mahaney, MD, PhD	Southwest Foundation For Biomedical Research	MSD
Joseph L. Mahoney, PhD	Yale University	RPHB
Steven F. Maier, PhD	University of Colorado	IFCN
Richard E. Mains, PhD	University of Connecticut School of Medicine and Dentistry	ENR
Sankar N. Maity, PhD	University of Texas	BCS
William Maixner, DDS, PhD	University of North Carolina	IFCN
Marvin W. Makinen, DPH	University of Chicago	BPC
Vivek Malhotra, PhD	University of California, San Diego	CDF
Linda H. Malkas, PhD	Indiana University-Purdue University, Indianapolis	ONC
David Malkin, MD	Hospital For Sick Children	MSD
Ludise Malkova, PhD	Georgetown University	BBBP
Susan R. Mallery, DDS, PhD	Ohio State University	ONC
Marianne Manchester, PhD	Scripps Research Institute	ONC
David R. Mandel, PhD	University of Victoria	BBBP
Richard A. Manderville, PhD	Wake Forest University Health Sciences	PPS
James J. Manfredi, PhD	Mount Sinai School of Medicine	CDF, ONC
David J. Mangelsdorf, PhD	University of Texas Southwestern Medical Center at Dallas	ENR
Susan E. Mango, PhD	University of Utah	CDF
Paul B. Manis, PhD	University of North Carolina	IFCN
Nancy R. Manley, PhD	University of Georgia	MSD
David R. Mann, PhD	Morehouse School of Medicine	ENR
Kenneth A. Mann, PhD	State University of New York Upstate Medical University	MSD
Richard S. Mann, PhD	Columbia University	CDF
Robert E. Mann, PhD	Addiction Research Foundation	BBBP
Andrew J. Mannes, MD, PhD	National Institute of Dental and Craniofacial Research	BBBP
David R. Manning, PhD	University of Pennsylvania	CVS
Douglas A. Marchuk, PhD	Duke University Medical Center	GNS, MSD
Edward M. Marcotte, PhD	University of Texas at Austin	NMS
Craig B. Marcus, PhD	University of New Mexico Health Sciences Center	PPS
Gary F. Marcus, PhD	New York University	BBBP
Gerard J. Marek, MD, PhD	Pfizer, Inc	IFCN
Stephen A. Maren, PhD	University of Michigan at Ann Arbor	IFCN
Joseph F. Margiotta, PhD	Medical College of Ohio at Toledo	MDCN
Daniel Margoliash, PhD	University of Chicago	IFCN
Arthur Margolin, PhD	Yale University School of Medicine	AARR
Benjamin L. Margolis, MD	University of Michigan at Ann Arbor	MSD
Todd P. Margolis, MD, PhD	University of California, San Francisco	IDM
Susan S. Margulies, PhD	University of Pennsylvania	PPS
Kenneth J. Marians, PhD	Memorial Sloan-Kettering Cancer Center	BCS
Roy A. Mariuzza, MD, PhD	Center For Advanced Research In Biotechnology	BPC, IMM
Michael J. Marks, PhD	University of Colorado at Boulder	MDCN
Roger R. Markwald, MD, PhD	Medical University of South Carolina	PPS
Catherine A. Marler, MD, PhD	University of Wisconsin	BBBP

Judith A. Marlett, PhD	University of Wisconsin, Madison	NMS
Mario B. Marrero, PhD	Medical College of Georgia	CVS
Gerard Marriott, PhD	University of Wisconsin	BPC
Susan J. Marriott, PhD	Baylor College of Medicine	IDM
Richard T. Marrocco, PhD	University of Oregon	BBBP
Lisa A. Marsch, PhD	University of Vermont and State Agricultural College	AARR
Randall Marshall, MD	Columbia University College of Physicians and Surgeons	BBBP
John M. Martell, MD	University of Chicago	SRB
James F. Martin, MD, PhD	Texas A&M University Health Science Center	ONC
Lee J. Martin, PhD	Johns Hopkins University	BDCN
Peter R. Martin, MD	Vanderbilt University	IFCN
Richard J. Martin, PhD	University of Iowa	IDM
Sandra L. Martin, PhD	University of Colorado School of Medicine	GNS
Susan A. Martinis, PhD	University of Houston	BCS
Anita Marton, MD, PhD	Inotek Pharmaceuticals Corporation	MSD
Pradip K. Mascharak, PhD	University of California, Santa Cruz	BPC
Barbara J. Mason, PhD	Scripps Research Institute	IFCN
William S. Mason, PhD	Oncovax, LLC	IDM
Michael Masson, PhD	University of Victoria	BBBP
Ann S. Masten, PhD	University of Minnesota	RPHB
Grant S. Mastick, PhD	University of Nevada	MDCN
Daniel H. Mathalon, MD	SRI International	BDCN
Porunelloor A. Mathew, PhD	University of North Texas Health Science Center	IMM
Subbi P. Mathur, PhD	Medical University of South Carolina	ENR
Lynn M. Matrisian, MD, PhD	Metaprobe, Inc	ONC
Dwight E. Matthews, PhD	University of Vermont and State Agricultural College	NMS
Michael J. Matunis, PhD	Johns Hopkins University	CDF
Nicholas A. Matwiyoff, PhD	University of New Mexico, Albuquerque	BDCN
John R. Matyas, PhD	University of Calgary	MSD
Michael D. Mauk, PhD	University of Texas Health Science Center, Houston	IFCN
Nilanjana Maulik, PhD	University of Connecticut Medical Center	CVS
Michael R. Maurizi, PhD	National Cancer Institute	BCS
Frederick R. Maxfield, PhD	Weill Medical College of Cornell University	NMS
Annette E. Maxwell, DPH, DRPH	University of California, Los Angeles	HOP
Gregory S. May, MD, PhD	Baylor College	IDM
Jeffrey V. May, PhD	Wichita State University	ENR
Victor May, PhD	University of Vermont College of Medicine	ENR
Tanya N. Mayadas, PhD	Brigham and Women's Hospital	CVS
Kimberley McAllister, PhD	University of California, Davis	IFCN
Shellie R. McAlpine, PhD	San Diego State University	BPC
Chris J. McBain, PhD	National Institute of Child Health and Human Development	MDCN
Duane C. McBride, PhD	Andrews University	AARR
William J. McBride, DSc, PhD	Indiana University-Purdue University, Indianapolis	IFCN
Michael J. McCabe, PhD	University of Rochester School of Medicine and Dentistry	PPS
Timothy A. McCaffrey, PhD	George Washington University Medical Center	CVS
Dennis J. McCance, PhD	University of Rochester	IDM
John R. McCarrey, PhD	Gordon Research Conferences	ENR
James B. McCarthy, PhD	University of Minnesota Cancer Center	ONC
Ken D. McCarthy, MD, PhD	University of North Carolina, Chapel Hill	MDCN
Kevin J. McCarthy, PhD	Louisiana State University	MSD
Margaret M. McCarthy, PhD	University of Maryland	MDCN
Philip L. McCarthy, MD	Roswell Park Cancer Institute	ONC
Nael A. McCarty, PhD	Georgia Institute of Technology	MSD
Donald A. McClain, MD, PhD	University of Utah	NMS
J. Ross McClung, PhD	Virginia Commonwealth University	MSD
William R. McCombie, PhD	Cold Spring Harbor Laboratory	GNS
James T. McCracken, MD	University of California, Los Angeles	BBBP
Keith R. McCrae, MD	Case Western Reserve University	HEME
Kevin K. McCully, PhD	University of Georgia	MSD
Paul J. McDermott, PhD	Medical University of South Carolina	CVS

Melissa A. McDiarmid, MD	University of Maryland School of Medicine	BBBP
James K. McDougall, PhD	Fred Hutchinson Cancer Research Center	IDM
Joan M. McDowd, PhD	University of Kansas Medical Center	BBBP
Janet E. McElhaney, MD	University of Connecticut School of Medicine and Dentistry	MSD
Margaret J. McElrath, MD, PhD	Keystone Symposia	AARR
M. Catharine McElwain, PhD	Loyola Marymount University	GNS
Cathy L. McEvoy, PhD	University of South Florida	BBBP
David H. McFarland, PhD	University of Montreal	BBBP
Robert E. McGehee, PhD	University of Arkansas For Medical Sciences	NMS
Paul McGonigle, MD, PhD	University of Pennsylvania	IFCN
Timothy E. McGraw, PhD	Cornell University Medical College	NMS
Marion McGregor, DC	Texas Chiropractic College	MSD
Richard A. McIndoe, PhD	Medical College of Georgia	GNS
Melvin G. McInnis, MD	Johns Hopkins University	GNS
Kevin S. McIver, PhD	University of Texas Southwestern Medical Center at Dallas	IDM
Suzanne P. McKee, PhD	Smith-Kettlewell Eye Research Institute	IFCN
Frank D. McKeon, PhD	Harvard University Medical School	CDF
Michael B. McKeown, PhD	Brown University	MDCN
Randall D. McKinnon, PhD	University of Medicine and Dentistry of New Jersey	MDCN
Alan McLachlan, PhD	Scripps Research Institute	IDM
Sandra M. McLachlan, PhD	Cedars-Sinai Medical Center	ENR
Jerry W. McLarty, PhD	Louisiana State University Health Sciences Center, Shreveport	HOP
Joanne McLaurin, PhD	University of Toronto	MDCN
Robert Jc McLean, PhD	Southwest Texas State University	MSD
Susan V. McLeer, MD	State University of New York at Buffalo	BBBP
Francis J. McMahan, MD	National Institute of Mental Health	HOP
Lori L. McMahan, PhD	University of Alabama at Birmingham	MDCN
Robert J. McMahan, PhD	University of Washington	RPHB
Susan McMillan, PhD	University of South Florida	HOP
Mark C. McMills, PhD	Ohio University, Athens	BPC
Elizabeth M. McNally, MD, PhD	University of Chicago	CVS
Michael F. McNitt-Gray, PhD	University of California, Los Angeles	SRB
Linda C. McPhail, PhD	Society For Leukocyte Biology	CVS
Daniel W. McVicar, PhD	National Cancer Institute	IMM
Jan R. Mead, PhD	Emory University	AARR
Thomas J. Meade, PhD	Northwestern University	BPC
Kathryn P. Meadow-Orlans, PhD	Gallaudet University	RPHB
Allen Meek, MD	University Hospital	ONC
Rick B. Meeker, PhD	University of North Carolina	AARR
Dolly Mehta, PhD	University of Illinois at Chicago	PPS
Jerrold Meinwald, PhD	Cornell University	BPC
Gerhard W. Meissner, PhD	University of North Carolina	CVS
Marvin L. Meistrich, PhD	University of Texas M.D. Anderson Cancer Center	ENR, ONC
Elizabeth D. Mellins, MD	Stanford University	IMM
Craig C. Mello, PhD	University of Massachusetts Medical School, Worcester	CDF
Richard H., Melloni, PhD	Northeastern University	BBBP
William E. Mencl, PhD	Yale University	BBBP
David S. Mendelowitz, PhD	George Washington University	CVS
Richard Mendelsohn, PhD	Rutgers University	BPC
John E. Mendelson, MD	California Pacific Medical Center, Pacific Campus	HOP
Carlos F. Mendes De Leon, PhD	Rush-Presbyterian-St. Luke's Medical Center	HOP
Sally P. Mendoza, PhD	University of California, Davis	BBBP
Jairam K. Menon, PhD	University of Michigan at Ann Arbor	ENR
K.M.J. Menon, PhD	University of Michigan Medical School	ENR
Salim Merali, PhD	New York University School of Medicine	AARR
Kalpana M. Merchant, PhD	Pharmacia and Upjohn, Inc	IFCN
Mark K. Mercola, PhD	Oncosis, Inc	CDF
Stephen C. Meredith, MD, PhD	University of Chicago	BPC, CVS
Ayalew Mergia, PhD	University of Florida	AARR
Diane E. Merry, PhD	University of Pennsylvania	MDCN

Daniel Meruelo, PhD	New York University Medical Center	IMM
James F. Meschia, MD	Mayo Clinic, Jacksonville	HOP
Phillip B. Messersmith, PhD	Northwestern University	MSD
Stephen P. Messier, PhD	Wake Forest University	MSD
David S. Metzger, PhD	University of Pennsylvania	AARR
Simin N. Meydani, DVM, PhD	Tufts University	MSD
Laurence Meyer, MD, PhD	University of Utah	HOP
Timothy W. Meyer, MD	Stanford University Medical Center	MSD
Dieter J. Meyerhoff, PhD	University of California, San Francisco	AARR
Christina A. Meyers, PhD	University of Texas M.D. Anderson Cancer Center	BDCN
Craig M. Meyers, PhD	Pennsylvania State University College of Medicine	AARR
Deborah A. Meyers, MD, PhD	Wake Forest University Health Sciences	GNS
Christine A. Miaskowski, PhD	University of California, San Francisco	HOP
Rosemarie Mick,	University of Pennsylvania	ONC
Lynda Mickleborough, MD	Toronto General Hospital	SRB
Theodore Miclau, MD	University of California, San Francisco	MSD
Lucio Miele, MD, PhD	University of Illinois at Chicago	ONC
Gregory A. Mignery, PhD	Loyola University, Chicago	CDF
Emmanuel J. Mignot, MD, PhD	Stanford University	BDCN
Takashi Mikawa, PhD	Cornell University Medical College	CVS
Tom Mikkelsen, MD	Henry Ford Health System	ONC
Christine A. Milcarek, PhD	University of Pittsburgh School of Medicine	IMM
Michael F. Miles, MD, PhD	Virginia Commonwealth University	IFCN
Dianna M. Milewicz, MD, PhD	University of Texas Health Science Center, Houston	GNS
Anne-Frances Miller, PhD	University of Kentucky	BCS
Barbara A. Miller, MD, PhD	Weis Center For Research-Geisinger Clinic	ONC
Bruce L. Miller, PhD	University of Idaho	IDM
Dusty Miller, PhD	Fred Hutchinson Cancer Research Center	IDM
Gary W. Miller, PhD	Emory University	IFCN
John R. Miller, PhD	Florida State University	BPC
Joseph D. Miller, PhD	University of Southern California	IFCN
Kevin F. Miller, MD, PhD	University of Illinois	BBBP
Lee E. Miller, PhD	Northwestern University	IFCN
Richard J. Miller, PhD	Northwestern University	MDCN
Robert H. Miller, MD, PhD	Case Western Reserve University	MDCN
Scott J. Miller, PhD	Boston College	BPC
Thomas A. Miller, MD	Virginia Commonwealth University	SRB
W. Todd Miller, PhD	State University of New York	BCS
Clarke F. Millette, PhD	University of South Carolina at Columbia	ENR
Theodore E. Milner, PhD	Simon Fraser University	MSD
Jeffrey H. Miner, PhD	Washington University School of Medicine	CVS, MSD
Johnathan Mink, MD, PhD	University of Rochester	BDCN
Keith P. Mintz, PhD	University of Vermont	MSD
Rajesh C. Miranda, PhD	Texas A&M University Health Science Center	IFCN
Raghavendra G. Mirmira, MD, PhD	University of Virginia, Charlottesville	ENR
Om P. Mishra, PhD	Drexel University	ENR
Tom Misteli, PhD	National Cancer Institute	CDF
Charles A. Mistretta, PhD	University of Wisconsin	SRB
William E. Mitch, MD	University of Texas Medical Branch at Galveston	MSD
Aaron P. Mitchell, PhD	Marine Biological Laboratory	IDM
David R. Mitchell, PhD	Syracuse University	CDF
John L. Mitchell, PhD	Northern Illinois University	ONC
Laura E. Mitchell, PhD	Texas A&M University Health Science Center	HOP
Melanie Mitchell, PhD	Oregon Health and Science University	AARR
Pamela J. Mitchell, PhD	Pennsylvania State University	CDF
Thomas Mitchell, PhD	Carnegie Mellon University	IFCN
Ashim K. Mitra, PhD	University of Missouri, Kansas City	AARR
Bharati Mitra, PhD	Wayne State University	IDM
Partha P. Mitra, PhD	Cold Spring Harbor Laboratory	IFCN
Sankar Mitra, PhD	University of Texas Medical Branch	ONC

Jay E. Mittenthal, PhD	University of Illinois	GNS
Robert S. Mittler, PhD	Emory University School of Medicine	IMM
Wayne A. Mitzner, PhD	Johns Hopkins University	PPS
Shigeki Miyamoto, MD, PhD	University of Wisconsin Medical School	ONC
Steven B. Mizel, PhD	Wake Forest University Health Sciences	IMM
Charles V. Mobbs, PhD	Mount Sinai School of Medicine	NMS
Donald M. Mock, MD, PhD	University of Arkansas For Medical Sciences	NMS
Victoria Mock, DNSc	Johns Hopkins University	HOP
Cecilia B. Moens, PhD	Fred Hutchinson Cancer Research Center	CDF
Jennifer F. Moffat, PhD	State University of New York Upstate Medical University	IDM
Robert A. Moffitt, PhD	Johns Hopkins University	HOP
Jeffrey S. Mogil, PhD	McGill University	IFCN
Subburaman Mohan, PhD	Loma Linda Veterans Association	MSD
Thalachallour Mohanakumar, DVM, PhD	Washington University School of Medicine	SRB
Carolyn Mold, PhD	University of New Mexico, Albuquerque	CVS
Lyle Moldawer, PhD	University of Florida	SRB
Tadeusz F. Molinski, PhD	University of California, Davis	BPC
Jeffery D. MolKentin, PhD	Children's Hospital Medical Center, Cincinnati	CVS
Jeffrey J. MollDrem, MD	University of Texas M.D. Anderson Cancer Center	HEME
Marc Monestier, MD, PhD	Temple University	IMM
Linda D. Moneyham, DNSc	University of South Carolina at Columbia	AARR
Timothy H. Monk, DSc	Western Psychiatric Institute and Clinic	IFCN
John G. Monroe, PhD	University of Pennsylvania	IMM
John R. Monterosso, PhD	University of California, Los Angeles	BBBP
Bruce R. Montgomery, MD	University of Washington	ONC
John Montgomery, PhD	Wayne State University	BPC
Paul C. Montgomery, PhD	Wayne State University	MSD
Robert R. Montgomery, MD, PhD	Medical College of Wisconsin	HEME
Susanne B. Montgomery, PhD	Loma Linda University	AARR
Thomas J. Montine, MD, PhD	University of Washington	MDCN
Susan L. Mooberry, PhD	Southwest Foundation For Biomedical Research	ONC
Sally A. Moody, PhD	George Washington University Medical Center	GNS
Suresh H. Moolgavkar, MD, PhD	Fred Hutchinson Cancer Research Center	ONC
Anne M. Moon, MD, PhD	University of Utah	CVS
Robert A. Mooney, PhD	University of Rochester	ENR
Bradley S. Moore, PhD	University of Arizona	BPC
Colleen Moore, PhD	University of Wisconsin, Madison	BBBP
Dan H. Moore, PhD	University of California	ONC
Gloria A. Moore, PhD	University of Florida	GNS
James E. Moore, PhD	Texas A&M University System	SRB
Peter B. Moore, PhD	Yale University	BCS
Gil G. Mor, MD, PhD	Yale University	ENR
Carlos T. Moraes, PhD	University of Miami School of Medicine	GNS
Timothy H. Moran, MD, PhD	Johns Hopkins University	IFCN
Laurence M. Morel, PhD	University of Florida	IMM
Penelope A. Morel, MD	University of Pittsburgh	IMM
Lee R. Morgan, MD, PhD	Dekk-Tec, Inc	ONC
Timothy M. Morgan, PhD	Wake Forest University	ONC
William F. Morgan, DSc	University of Maryland School of Medicine	ONC
Lawrence P. Morin, PhD	State University of New York at Stony Brook	IFCN
James P. Morken, PhD	University of North Carolina, Chapel Hill	BPC
Patricia J. Morokoff, PhD	University of Rhode Island	AARR
Catherine Elizabeth Morris, PhD	Ottawa Health Research Institute	MDCN
David R. Morris, PhD	University of Washington	BCS
Glenn Morris, MD	University of Maryland Baltimore Professional School	HOP
John C. Morris, MD	Mayo Clinic, Rochester	ENR, ONC
Tracy L. Morris, PhD	West Virginia University	BBBP
Joel D. Morrisett, PhD	Baylor College of Medicine	BCS
Sherie L. Morrison, PhD	University of California, Los Angeles	SRB

Jason D. Morrow, MD	Vanderbilt University	BCS
Douglas E. Morse, DDS, PhD	New York University Dental Center	MSD
Edward V. Morse, PhD	Tulane University Medical School	AARR
John S. Mort, PhD	Shriners Hospital For Children	BCS
Richard M. Mortensen, MD, PhD	University of Michigan	NMS
Henry I. Mosberg, PhD	University of Michigan	MDCN
Michael E. Moseley, PhD	Stanford University	BBBP, BDCN
Debra Moser, DNSc	University of Kentucky	HOP
Kevin Moses, PhD	Emory University	MDCN
Deane F. Mosher, MD	University of Wisconsin Medical School	CVS
Dimitrios Moskofidis, MD	Medical College of Georgia	IDM
Judith T. Moskowitz, PhD	University of California, San Francisco	AARR
Keith E. Mostov, MD, PhD	University of California, San Francisco	MSD
Massoud Motamedi, PhD	University of Texas Medical Branch at Galveston	MSD
Frank Mott, PhD	Ohio State University	HOP
Stephen M. Mount, PhD	University of Maryland, College Park	CDF, GNS
John D. Mountz, MD, PhD	University of Alabama at Birmingham	CDF
Sue A. Moyer, PhD	University of Florida	IDM
Keith J. Mueller, PhD	University of Nebraska Medical Center	HOP
Tom W. Muir, PhD	The Rockefeller University	BPC
Bijay Mukherji, MD	University of Connecticut Health Center	ONC
Debabrata Mukhopadhyay, PhD	Mayo Clinic, Rochester	CVS, ONC
James J. Mule, PhD	University of Michigan Medical Center	ONC
Christa E. Muller-Sieburg, PhD	Sidney Kimmel Cancer Center	CVS
Kathleen Mulligan, PhD	University of California, San Francisco	AARR
Nancy A. Muma, PhD	Loyola University Medical Center	MDCN
Marc C. Mumby, PhD	University of Texas Southwestern Medical Center at Dallas	BCS
Yuko Munakata, PhD	University of Colorado at Boulder	BBBP
Peter Mundel, MD	Albert Einstein College of Medicine, Yeshiva University	MSD
Carles Muntaner, MD, PhD	University of Maryland, Baltimore	HOP
Bruce D. Murphy, PhD	University of Montreal	ENR
Claire L. Murphy, PhD	San Diego State University	BBBP
Debra A. Murphy, PhD	University of California, Los Angeles	AARR
Gregory L. Murphy, PhD	New York University	BBBP
Thomas J. Murphy, PhD	Emory University	CVS
William J. Murphy, PhD	Temple University	ONC
Henry W. Murray, MD	Weill Medical College of Cornell University	IDM
Jeffrey C. Murray, MD, PhD	University of Iowa	GNS
Peter J. Murray, PhD	St. Jude Children's Research Hospital	AARR
John R. Murren, MD	Yale University	ONC
Karin M. Musier-Forsyth, PhD	Gordon Research Conferences	BCS
Ferdinando Mussa-Ivaldi, PhD	Rehabilitation Institute Research Corporation	MSD
Michael J. Mustari, PhD	Yerkes Regional Primate Research Center	IFCN
Jan E. Mutchler, PhD	University of Massachusetts, Boston	HOP
Donald O. Mutti, DSc, OD	Ohio State University	IFCN
Leslie Myatt, PhD	Oregon Health and Science University	ENR
Elizabeth R. Myers, PhD	Hospital For Special Surgery	MSD
Kyle J. Myers, PhD	Food and Drug Administration	SRB
Robert J. Myerson, MD, PhD	Washington University	ONC
Diana G. Myles, PhD	University of Connecticut School of Medicine and Dentistry	ENR
Michael W. Nachman, PhD	University of Arizona	GNS
Michael A. Nader, PhD	Wake Forest University Health Sciences	IFCN
Mitzi Nagarkatti, PhD	Virginia Commonwealth University	CVS
Prakash S. Nagarkatti, PhD	Virginia Commonwealth University	PPS
Craig T. Nagoshi, PhD	Arizona State University	HOP
Laura E. Nagy, PhD	Case Western Reserve University	PPS
Fred R. Naider, PhD	City University of New York	BPC
Madhavan P. Nair, PhD	University of South Alabama	AARR
Rodney S. Nairn, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Ali Naji, MD, PhD	University of Pennsylvania	SRB

Sonia M. Najjar, PhD	Medical College of Ohio at Toledo	BCS
Orhan Nalcioglu, PhD	University of California, Irvine	SRB
George Nancollas, DSc, PhD	State University of New York at Buffalo	MSD
Michael H. Nantz, PhD	University of California, Davis	BPC
David M. Nanus, MD	Weill Medical College of Cornell University	ONC
Toshio Narahashi, DSc, DVM	Northwestern University Medical School	IFCN
Opendra Narayan, DVM	University of Kansas Medical Center	AARR
Ann M. Nardulli, PhD	University of Illinois	ENR
Michael C. Naski, MD, PhD	University of Texas at San Antonio	MSD
Ananth Natarajan, MD, PhD	Infinite Biomedical Technologies, LLC	BDCN
Carl F. Nathan, MD	Cornell University	IMM
Ann B. Nattinger, MD	Medical College of Wisconsin	HOP
Mohamad Navab, PhD	University of California, Los Angeles	CVS
Javier Navarro, PhD	University of Texas Medical Branch	BPC
Maiken Nedergaard, MD	New York Medical College	MDCN
Jenae M. Neiderhiser, PhD	George Washington University	HOP
Tore Neilsen, PhD	University of Montreal	BBBP
Stephen F. Nelsen, PhD	University of Wisconsin, Madison	ONC
Deborah J. Nelson, PhD	University of Chicago	MDCN
Dorothy A. Nelson, PhD	Wayne State University	MSD
Mark T. Nelson, PhD	Federation of American Societies For Experimental Biology	CVS
Randall W. Nelson, PhD	Intrinsic Bioprobes, Inc	ONC
William J. Nelson, PhD	Stanford University	CDF
David A. Nemazee, PhD	Scripps Research Institute	IMM
Barbara Nemesure, PhD	State University of New York at Stony Brook	HOP
Jeanne M. Nerbonne, MD, PhD	Washington University	NMS
Roberta B. Ness, MD	University of Pittsburgh	HOP
Thomas L. Netzel, PhD	Georgia State University	BPC
Susan L. Neuhausen, PhD	University of California, Irvine	HOP
Claudia M. Neuhauser, PhD	University of Minnesota at Saint Paul	GNS
Kim A. Neve, PhD	Portland Veterans Affairs Research Foundation, Inc	MDCN
John W. Newcomer, MD	Washington University School of Medicine	BBBP
Paul A. Newhouse, MD	University of Vermont	BDCN
M. Christopher Newland, PhD	Auburn University	IFCN
Carol S. Newlon, PhD	University of Medicine and Dentistry of New Jersey	CDF
Irene F. Newsham, PhD	Case Western Reserve University, Henry Ford Health Services Center	HOP
Michael A. Newton, PhD	University of Wisconsin, Madison	GNS
John J. Ngai, PhD	University of California, Berkeley	IFCN
Max L. Nibert, MD, PhD	Harvard University Medical School	IDM
John W. Nichols, PhD	Emory University School of Medicine	NMS
Barbara J. Nicklas, PhD	Wake Forest University Health Sciences	MSD
Theresa A., Nicklas, DPH, DRPH	Baylor College of Medicine	HOP, RPHB
Mary A. Nies, PhD	Wayne State University	HOP
Kathryn R. Nightingale, PhD	Duke University	SRB
Vishwajit L. Nimgaonkar, MD, PhD	University of Pittsburgh	GNS
Ruola Ning, PhD	University of Rochester	SRB
Dwight G. Nishimura, PhD	Stanford University	SRB
Michael I. Nishimura, PhD	University of Chicago	IMM
Douglas F. Nixon, MD, PhD	J. David Gladstone Institutes	AARR
Mark D. Noble, PhD	University of Rochester Medical Center	MDCN
Paul Wesley Noble, MD	Yale University	IMM
Samuel Noh, PhD	University of Akron	HOP
Jan A. Nolta, PhD	Washington University	HEME
Ralph E. Norgren, PhD	Pennsylvania State University Hershey Medical Center	IFCN
James S. Norris, MD, PhD	Medical University of South Carolina	ONC
Vicente Notario, PhD	Georgetown University	ONC
Melinda A. Novak, PhD	University of Massachusetts	BBBP
Isabel S. Novella, PhD	Medical College of Ohio at Toledo	IDM
Edward J. Novotny, MD	Yale University School of Medicine	BPC
Richard S. Nowakowski, PhD	University of Medicine and Dentistry of New Jersey	MDCN

Volker Nowotny, PhD	University of Michigan	GNS
Antonio A. Nunez, PhD	Michigan State University	PPS
Gabriel Nunez, MD	University of Michigan at Ann Arbor	ONC
J. I. Nurnberger, PhD	Institute of Psychiatric Research	BDCN
Victor Nussenzweig, MD, PhD	New York School of Medicine	IDM
Sergey V. Nuzhdin, PhD	University of California, Davis	GNS
Jennifer K. Nyborg, PhD	Colorado State University	IDM
Martha G. Oakley, PhD	Indiana University	BPC
Robert A. Oakley, PhD	George Washington University	MDCN
Lina M. Obeid, MD	Medical University of South Carolina	BCS
John D. Oberdick, PhD	Ohio State University	MDCN
Jan Oberdoerster, PhD	Bayer Cropscience	MDCN
Andreas F. Oberhauser, PhD	University of Texas Medical Branch	BPC
Tatiana M. Oberyszyn, MD, PhD	Ohio State University	ONC
Kevin F. O'Brien, PhD	East Carolina University	ONC
Richard M. O'Brien, PhD	Vanderbilt University	ENR
Timothy P. O'Brien, PhD	Jackson Laboratory	IMM
William A. O'Brien, MD, PhD	University of Texas Medical Branch	AARR
Abe Obuchowski, MD	University of Maryland, Baltimore County	SRB
Howard Ochman, PhD	University of Arizona	GNS
Augusto C. Ochoa, MD	Louisiana State University Health Sciences Center, New Orleans	ONC
Bonnie B. O'Connor, PhD	Brown University	HOP
Timothy R. O'Connor, PhD	City of Hope National Medical Center	ONC
Thomas J. O'Dell, PhD	University of California, Los Angeles	IFCN
Patricio O'Donnell, MD, PhD	Albany Medical College of Union University	IFCN
Jon S. Odorico, MD	University of Wisconsin, Madison	NMS
Diane K. O'Dowd, PhD	University of California, Irvine	MDCN
Amy Odum, PhD	University of New Hampshire	BBBP
Marjorie A. Oettinger, MD, PhD	Massachusetts General Hospital	IMM
Roy C. Ogle, PhD	University of Virginia School of Medicine	MSD
Michael J. Oglesbee, DVM, PhD	Ohio State University	IDM
Stephen V. O'Gorman, PhD	Case Western Reserve University	CDF
Babatunde A. Ogunnaiké, PhD	University of Delaware	MDCN
Dennis E. Ohman, PhD	Virginia Commonwealth University	IDM
John O. Ojeifo, MD, PhD	Georgetown University	ONC
Yoshio Okada, PhD	University of New Mexico	BDCN
Mark D. Okusa, MD	University of Virginia Health System	MSD
Eric Oldfield, DSc, PhD	University of Illinois at Urbana-Champaign	BPC
Brian Oliver, PhD	National Institutes of Health	GNS
Donald B. Oliver, PhD	Wesleyan University	IDM
Noelynn A. Oliver, PhD	Fibrogen	CDF
Horacio F. Olivo, PhD	University of Iowa	BPC
Ann L. Olson, PhD	University of Oklahoma Health Sciences Center	NMS
Jane M. Olson, PhD	Case Western Reserve University	GNS
John S. Olson, PhD	Rice University	HEME
Lawrence K. Olson, PhD	Michigan State University	NMS
Timothy M. Olson, MD	Mayo Clinic, Rochester	CVS
Eugene M. Oltz, PhD	Vanderbilt University	GNS
Bishr B. Omary, MD, PhD	Gordon Research Conferences	PPS
Sergio A. Onate, PhD	University of Pittsburgh	ENR, ONC
Luke A. O'Neill, PhD	Trinity College	IDM
Paula N. O'Neill, EdD, PhD	University of Texas at Houston	HOP
Jose Nelson Onuchic, PhD	University of California, San Diego	BPC
Wee Lock Ooi, DRPH, PhD	Hebrew Rehabilitation Center For Aged	HOP
Stanley J. Opella, PhD	University of California, San Diego	BPC
Mark R. Opp, PhD	University of Michigan	IFCN
Charles P. Ordahl, MD, PhD	University of California, San Francisco	CDF
Jose M. Ordovas, PhD	Tufts University	HOP
Michael A. O'Reilly, PhD	University of Rochester	PPS
Marjorie F. Orellana, PhD	Northwestern University	BBBP

David A. Ornelles, PhD	Wake Forest University Health Sciences	IDM
Donald M. O'Rourke, MD	University of Philadelphia	ONC
Harry T. Orr, PhD	University of Minnesota	MDCN
Scott P. Orr, PhD	Massachusetts General Hospital	BBBP
William C. Orr, PhD	Southern Methodist University	MSD
Terry L. Orr-Weaver, PhD	Whitehead Institute For Biomedical Research	GNS
Paul R. Ortiz De Montellano, PhD	University of California, San Francisco	PPS
Allan R. Oseroff, MD, PhD	Roswell Park Cancer Institute	ONC
T. Michael O'Shea, MD	Wake Forest University Health Sciences	BBBP
George J. Osol, PhD	University of Vermont and State Agricultural College	ENR
Elaine A. Ostrander, PhD	Fred Hutchinson Cancer Research Center	ONC
Suzanne O. Ostrand-Rosenberg, PhD	University of Maryland, Baltimore County	IMM
Michael C. Ostrowski, PhD	Ohio State University	MSD
Robert E. Oswald, PhD	Cornell University, Ithaca	BCS
George A. O'Toole, PhD	Dartmouth College	IDM
Peter Ottensmeyer, PhD	University of Toronto	BPC
Merry Jo Oursler, PhD	Mayo Clinic, Rochester	MSD
Christopher M. Overall, PhD	University of British Columbia	BCS
Michael J. Overduin, PhD	University of Colorado Health Sciences Center	BPC
Elizabeth B. Owens, PhD	University of California	RPHB
Cynthia Owsley, PhD	University of Alabama at Birmingham	BBBP
Laurie J. Ozelius, PhD	Albert Einstein College of Medicine, Yeshiva University	GNS
Michael J. Pabst, PhD	University of Tennessee, Memphis	MSD
R. Padmanabhan, PhD	Georgetown University	IDM
Richard E. Pagano, PhD	Mayo Clinic	BCS
Grier Page, PhD	University of Alabama at Birmingham	IFCN
Y.-C. (Clive) Pai, PhD	University of Illinois at Chicago	MSD
Lawrence A. Palinkas, PhD	University of California, San Diego	HOP
J. Lynn Palmer, PhD	University of Texas M.D. Anderson Cancer Center	HOP
Julie R. Palmer, ScD	Boston University	HOP
Lawrence G. Palmer, PhD	Cornell University Medical College	MSD
Lisa A. Palmer, PhD	University of Virginia	PPS
Robert J. Palmer, PhD	National Institute of Dental and Craniofacial Research	IDM
Theo D. Palmer, MD, PhD	Stanford University	MDCN
Bernhard O. Palsson, PhD	Genomatica	BCS, MDCN
Mari Palta, PhD	University of Wisconsin	HOP
Hui-Lin Pan, MD, PhD	Wake Forest University Health Sciences	CVS
Xiaochuan Pan, PhD	University of Chicago	SRB
Vijay S. Pande, PhD	Stanford University	BPC
Ghanshyam N. Pandey, PhD	University of Illinois	BDCN
Robert J. Pandina, PhD	Rutgers University	HOP
Harish C. Pant, PhD	National Institute of Neurological Disorders and Stroke	MDCN
Thalia Papayannopoulou, DSc, MD	University of Washington	HEME
Eleftherios T. Papoutsakis, PhD	Northwestern University	SRB
Leslie V. Parise, PhD	University of North Carolina	BCS
Denise C. Park, PhD	University of Michigan at Ann Arbor	BBBP
Hee-Young Park, PhD	Boston University School of Medicine	BPC
Kinam Park, PhD	Purdue University	CVS
Michael A. Parniak, PhD	University of Pittsburgh	AARR
Abby L. Parrill, PhD	University of Memphis	CDF
Barbara L. Parry, MD	University of California, San Diego	BDCN
V. Adrian Parsegian, PhD	National Institute of Child Health and Human Development	MDCN
Matthew R. Parsek, PhD	University of Iowa	IDM
Loren H. Parsons, PhD	Scripps Research Institute	IFCN
Ramon E. Parsons, MD, PhD	Columbia University	ONC
Thomas D. Parsons, DVM, PhD	University of Pennsylvania	IFCN
Alvaro Pascual-Leone, MD, PhD	Beth Israel Deaconess Medical Center	BBBP
Giulio M. Pasinetti, MD, PhD	Bronx Veterans Medical Research Foundation	MDCN
Elena B. Pasquale, PhD	Burnham Institute	MDCN
Gary R. Pasternack, MD, PhD	Johns Hopkins University	ONC

Tatiana Pasternak, PhD	University of Rochester	IFCN
Dhaval Kumar D. Patel, MD, PhD	Duke University Medical Center	AARR
Jawaharlal M. Patel, PhD	University of Florida	PPS
Andrew D. Paterson, MD	Hospital For Sick Children	GNS
Steven R. Patierno, PhD	George Washington University	PPS
Carlos N. Pato, MD	State University of New York at Stony Brook	GNS
Charlotte J. Patterson, PhD	University of Virginia, Charlottesville	RPHB
Garth I. Patterson, PhD	Rutgers University	CDF
Asit K. Pattnaik, PhD	University of Nebraska, Lincoln	IDM
Abhijit R. Patwardhan, PhD	University of Kentucky	PPS
David L. Pauls, PhD	Massachusetts General Hospital	HOP
James C. Paulson, PhD	Scripps Research Institute	BCS
Robert F. Paulson, PhD	Pennsylvania State University	CVS
James B. Pawley, PhD	University of Wisconsin, Madison	NMS
Claire M. Payne, PhD	Arizona University State College System	ONC
Richard Payne, MD, PhD	University of Maryland, College Park	IMM
Susan L. Payne, PhD	Texas A&M University	IDM
David Pearce, MD	University of California, San Francisco	MSD
Robert A. Pearce, MD, PhD	University of Wisconsin	SRB
Larry R. Pease, PhD	Mayo Clinic, Rochester	IDM
Vincent L. Pecoraro, PhD	University of Michigan at Ann Arbor	BPC
Peter L. Pedersen, PhD	Johns Hopkins University	BPC
Ray S. Peebles, MD	Vanderbilt University	PPS
Richard M. Peek, MD	Vanderbilt University	PPS
Mark E. Peeples, DRPH, MD	Rush-Presbyterian-St. Luke's Medical Center	IDM
Dehua Pei, PhD	Ohio State University	BCS
Mark A. Peifer, PhD	University of North Carolina, Chapel Hill	CDF
Stephen C. Peiper, MD	Medical College of Georgia	CDF
Clara M. Pelfrey, PhD	Cleveland Clinic Foundation	IMM
Charles A. Pelizzari, PhD	University of Chicago	ONC
Dale A. Pelligrino, PhD	University of Illinois at Chicago	SRB
David S. Pellman, MD, PhD	Dana-Farber Cancer Institute	CDF
Louis M. Pelus, PhD	Indiana University School of Medicine	CVS, HEME
Raymond B. Penn, PhD	Wake Forest University Health Sciences	PPS
Trevor M. Penning, PhD	University of Pennsylvania	ONC
Margaret S. Pepe, PhD	Fred Hutchinson Cancer Research Center	HOP
Debra Pepler, PhD	York University	RPHB
Ginette A. Pepper, PhD	University of Colorado Health Sciences Center	HOP
Lenore Pereira, PhD	University of California, San Francisco	IDM
Alan S. Perelson, PhD	University of California Los Alamos National Laboratory	IDM
Roman Perez-Soler, MD	Tigen Pharmaceuticals	ONC
David J. Perkel, PhD	University of Washington	IFCN
Sally P. Perreault-Darney, PhD	United States Environmental Protection Agency	ENR
Mark A. Perrella, MD	Brigham and Women's Hospital	CVS
Ellen C. Perrin, MD	New England Medical Center Hospitals	RPHB
Yuri Persidsky, MD, PhD	University of Nebraska Medical Center	AARR
Arkady M. Pertsov, PhD	State University of New York Health Science Center at Syracuse	CVS
James J. Pestka, PhD	Michigan State University	NMS
Nicos A. Petasis, PhD	University of Southern California	BPC
Robert J. Peterka, PhD	Oregon Health and Science University	BBBP
Jeffrey M. Peters, PhD	Pennsylvania State University	IMM
Luanne L. Peters, PhD	Jackson Laboratory	HEME
Stephen P. Peters, MD, PhD	Wake Forest University Health Sciences	IMM
Daniel A. Peterson, PhD	Finch University of Health Sciences/Chicago Medical School	MDCN
Lisa A. Peterson, PhD	University of Minnesota	ONC
Howard T. Petrie, PhD	Sloan-Kettering Institute For Cancer Research	IMM
Stephen A. Pettrill, PhD	Pennsylvania State University	HOP
Christos J. Petropoulos, PhD	Virologic, Inc	AARR
Gregory A. Petsko, DPH	Brandeis University	BCS
Bernard M. Pettitt, PhD	University of Houston	BPC

Patricia A. Peysner, PhD	University of Michigan at Ann Arbor	GNS
Lawrence M. Pfeffer, PhD	University of Tennessee	BCS
Karl Pfeifer, PhD	National Institute of Child Health and Human Development	GNS
John M. Pfothenhauer, PhD	University of Wisconsin, Madison	BPC
Robert D. Phair, PhD	Integrative Bioinformatics	CDF
Elizabeth A. Phelps, PhD	New York University	IFCN
Kenneth D. Philipson, PhD	University of California, Los Angeles	CVS
Louis H. Philipson, MD, PhD	University of Chicago	ENR
Mark Phillippe, MD	University of Vermont and State Agricultural College	ENR
Colin Phillips, PhD	University of Maryland	BBBP
George Neal Phillips, PhD	University of Wisconsin, Madison	BPC
Margaret A. Phillips, PhD	University of Texas Southwestern Medical Center at Dallas	IDM
Mark H. Phillips, PhD	University of Washington	ONC
Caroline C. Philpott, MD	National Institutes of Health	BPC
Kathy R. Phipps, DPH, DRPH	Oregon Health and Science University	MSD
Richard Phipps, PhD	University of Rochester	IMM
Michael T. Piascik, PhD	University of Kentucky	CVS
Marina R. Picciotto, PhD	Yale University School of Medicine	IFCN
Louis J. Picker, MD, PhD	Oregon Health and Science University	AARR
Vincent A. Pieribone, PhD	Physiological Technologies	IFCN
Richard N. Pierson, MD	University of Maryland	SRB
Jennifer A. Pietenpol, PhD	Vanderbilt University School of Medicine	ONC
Shiv S. Pillai, MB, MBBS	Massachusetts General Hospital	IMM
Ellen E. Pimentel	University of Illinois at Chicago	HOP
Steven D. Pinkerton, PhD	Medical College of Wisconsin	AARR
Kevin G. Pinney, PhD	Baylor University	BPC
John E. Pintar, PhD	University of Medicine and Dentistry of New Jersey	MDCN
David J. Pintel, PhD	University of Missouri, Columbia	IDM
Roger K. Pitman, MD	Massachusetts General Hospital	BBBP
Bryce V. Plapp, PhD	University of Iowa	PPS
Leonidas C. Plataniias, MD, PhD	Northwestern University	ONC
Gregory E. Plautz, MD	Cleveland Clinic Foundation	ONC
Dietmar Plenz, PhD	National Institute of Mental Health	IFCN
Pamela L. Plouhar, PhD	Orthobiologic Technologies	MSD
Edward F. Plow, PhD	Cleveland Clinic Foundation	BCS
Christopher V. Plowe, MD	University of Maryland	IDM
Eckhard R. Podack, MD, PhD	University of Miami, Coral Gables	IMM
Vincent Poitout, DVM, PhD	Pacific Northwest Research Institute	NMS
John M. Polich, PhD	Scripps Research Institute	IFCN
Gary Pollack, PhD	University of North Carolina, Chapel Hill	MSD
Thomas D. Pollard, MD, PhD	Yale University	CDF
David M. Pollock, PhD	Medical College of Georgia	CVS
Kornelia Polyak, MD, PhD	Dana-Farber Cancer Institute	ONC
Daniel Pomp, PhD	University of Nebraska, Lincoln	NMS
Usha Ponnappan, PhD	University of Arkansas For Medical Sciences	CDF
Mu-Ming Poo, PhD	University of California, San Diego	MDCN
Leslie B. Poole, PhD	Wake Forest University Health Sciences	BCS
Melissa J. Pope, MD, PhD	Population Council	AARR
Steven N. Popoff, PhD	Temple University	MSD
Kirill M. Popov, PhD	University of Alabama at Birmingham	BCS
Bernice Porjesz, PhD	State University of New York at Brooklyn	IFCN
Linda J. Porrino	Wake Forest University Health Sciences	IFCN
J. David Port, PhD	University of Colorado	CVS
James T. Porter, PhD	Ponce School of Medicine	CDF
Mary E. Porter, PhD	University of Minnesota	CDF
James W. Posakony, PhD	University of California, San Diego	GNS
Michael I. Posner, PhD	University of Oregon	IFCN
Edward M. Postlethwait, PhD	University of Alabama at Birmingham	PPS
James D. Potter, PhD	University of Miami	CVS
Kimberlee Potter, PhD	American Registry of Pathology, Inc	MSD

Alexandre Pouget, PhD	University of Rochester	IFCN
Thomas L. Poulos, PhD	University of California, Irvine	BPC
Frank L. Powell, PhD	University of California, San Diego	PPS
Jeffrey R. Powell, PhD	Yale University	GNS
Simon N. Powell, MD, PhD	Massachusetts General Hospital	ONC
Henry J. Pownall, PhD	Baylor College of Medicine	NMS
Lucas D. Pozzo-Miller, PhD	University of Alabama at Birmingham	MDCN
Bellur S. Prabhakar, MD, PhD	University of Illinois	ENR
Nanduri R. Prabhakar, DSc, PhD	Case Western Reserve University	PPS
Om Prakash, PhD	Ochsner Clinic Foundation	AARR
Vinayaka R. Prasad, PhD	Albert Einstein College of Medicine, Yeshiva University	AARR
Rex F. Pratt, PhD	Wesleyan University	BCS
Carol A. Prescott, PhD	Virginia Commonwealth University	HOP
James H. Prestegard, PhD	Keystone Symposia	BCS
Julian R. Preston, PhD	United States Environmental Protection Agency	ONC
Peter E. Prevelige, PhD	University of Alabama at Birmingham	AARR
Russell L. Prewitt, PhD	Eastern Virginia Medical School	CVS
David H. Price, PhD	University of Iowa	CDF
Jeffrey L. Price, PhD	University of Missouri, Kansas City	IFCN
Nigel Priestly, PhD	University of Montana	BPC
Jerry L. Prince, PhD	Johns Hopkins University	SRB
Morton P. Printz, PhD	University of California, San Diego	CVS
Richard L. Proia, PhD	National Institute of Diabetes and Digestive and Kidney Diseases	CDF
Steven J. Projan, PhD	Keystone Symposia	IDM
Philip J. Proteau, PhD	Oregon State University	BPC
Stephen B. Pruett, PhD	Louisiana State University Health Sciences Center	PPS
Kenneth R. Pugh, PhD	Yale University	BBBP
Robert H. Purcell, MD	National Institutes of Health	CVS
Jinyi Qi, PhD	University of California	SRB
Ning Qian, PhD	New York State Psychiatric Institute	IFCN
Jun Qin, PhD	Case Western Reserve University	BPC
John Quackenbush, PhD	Institute For Genomic Research	GNS
Peter H. Quail, PhD	University of California, Berkeley	CDF
Vito Quaranta, MD	Vanderbilt University	ONC
Ralph S. Quatrano, PhD	Washington University	CDF
Peter J. Quesenberry, MD	Roger Williams Hospital	MSD
Michael W. Quick, PhD	University of Southern California	MDCN
Richard J. Quigg, MD	University of Chicago	CVS
Patrick G. Quinn, PhD	Pennsylvania State University	ENR
Paul Quinn, PhD	Washington and Jefferson College	BBBP
Robert G. Quivey, PhD	University of Rochester	MSD
Richard D. Rabbitt, PhD	University of Utah	IFCN
Dallas L. Rabenstein, PhD	University of California, Riverside	BCS
Marlene Rabinovitch, MD	Stanford University	BCS
Arnold B. Rabson, MD, PhD	University of Medicine and Dentistry of New Jersey	ONC
Vincent R. Racaniello, PhD	Columbia University College of Physicians and Surgeons	IDM
Michael K. Racke, MD	University of Texas Southwestern Medical Center at Dallas	BDCN
Catherine Racowsky, PhD	Brigham and Women's Hospital	ENR
Eric H. Radany, MD, PhD	University of California, Irvine	ONC
Hershel Raff, MD, PhD	Medical College of Wisconsin	ENR
Shahin Rafii, MD	Cornell University	HEME
Malini Raghavan, PhD	University of Michigan at Ann Arbor	IMM
M.K. Raghuraman, PhD	University of Washington	CDF
David W. Raible, PhD	University of Washington	MDCN
Jon D. Rainier, PhD	University of Utah	BPC
Srinivasa N. Raja, MD	Johns Hopkins University	IFCN
T. V. Rajan, MD, PhD	University of Connecticut School of Medicine and Dentistry	IDM
Indra Raman, PhD	Northwestern University	MDCN
Jesus Ramirez-Valles, PhD	Juneteenth Productions	AARR
Daniel M. Ramos, DDS, PhD	University of California, San Francisco	MSD

Mark A. Rance, PhD	University of Cincinnati	BPC
David C. Randall, PhD	University of Kentucky	CVS
Scott H. Randell, PhD	University of North Carolina, Chapel Hill	PPS
Kevin D. Raney, PhD	University of Arkansas For Medical Sciences	BCS
Anjana Rao, MD, PhD	CBR Institute For Biomedical Research	IMM
Gadiparthi N. Rao, PhD	University of Tennessee Health Science Center	CVS
Mahendra S. Rao, MD, PhD	National Institute On Aging	MDCN
Mrinalini C. Rao, PhD	University of Illinois at Chicago	PPS
Rajini Rao, PhD	Johns Hopkins University School of Medicine	BPC
Stephen M. Rao, PhD	Medical College of Wisconsin	AARR
Uma Rao, MD	University of Texas Southwestern Medical Center at Dallas	BBBP
Jonathan A. Raper, PhD	University of Pennsylvania School of Medicine	MDCN
Bruce D. Rapkin, MD, PhD	Sloan-Kettering Institute For Cancer Research	AARR
Alan C. Rapraeger, PhD	University of Wisconsin	BCS
Douglas Rasmusson, PhD	Dalhousie University	IFCN
Rajiv R. Ratan, MD, PhD	Beth Israel Deaconess Medical Center	MDCN
Anthony Ratcliffe, PhD	Synthasome, Inc	MSD
Pradip K. Rathod, PhD	University of Washington	IDM
Timothy L. Ratliff, PhD	University of Iowa	ONC
Manohar Ratnam, PhD	Medical College of Ohio at Toledo	ONC
Nan B. Ratner, EdD, PhD	University of Maryland, College Park	BBBP
Stephen W. Raudenbush, EdD, PhD	University of Michigan at Ann Arbor	HOP
Kodi S. Ravichandran, PhD,	University of Virginia	IMM
David J. Rawlings, MD	Children's Hospital and Regional Medical Center	IMM
Stuart C. Ray, MD	Johns Hopkins University	IDM
Jennifer L. Raymond, PhD	Stanford University	IFCN
Avraham Raz, PhD	Wayne State University	ONC
Michael A. Rea, PhD	University of Houston	IFCN
Laurie K. Read, MD, PhD	State University of New York at Buffalo	CDF
Paul J. Reber, PhD	Northwestern University	IFCN
Jane F. Reckelhoff, PhD	University of Mississippi Medical Center	MSD
M. Thomas Record, PhD	University of Wisconsin, Madison	HEME
Ravinder Reddy, PhD	University of Pennsylvania	MSD
Sasiragha Priscilla Reddy, PhD	South Africa National Health Promotion Research and Development Group	AARR
Eva Redei, PhD	Northwestern University	BBBP
Steven I. Reed, PhD	Scripps Research Institute	CDF
Adam J. Reeves, PhD	Northeastern University	IFCN
Patricia H. Reggio, PhD	Kennesaw State University	MDCN
Norbert O. Reich, PhD	University of California	HEME
Nathaniel Reichek, MD	Allegheny University of Health Sciences	CVS
John B. Reid, PhD	Oregon Social Learning Center	RPHB
R. Clay Reid, MD, PhD	Harvard University Medical School	IFCN
Michael A. Reidy, PhD	University of Washington	SRB
Stephen Reilly, DPH	University of Illinois at Chicago	IFCN
Kathleen S. Rein, PhD	Florida International University	PPS
Steven L. Reiner, MD	University of Pennsylvania	IDM
Daniel Reines, PhD	Emory University	CDF
Lester A. Reinke, PhD	University of Oklahoma Health Sciences Center	PPS
Douglas S. Reintgen, MD, PhD	University of South Florida	SRB
Peter J. Reiser, PhD	Ohio State University	CVS
Susan T. Reisine, PhD	University of Connecticut School of Medicine and Dentistry	HOP
Marvin S. Reitz, PhD	University of Maryland	AARR
Norman R. Relkin, MD, PhD	Weill Medical College of Cornell University	HOP
Elaine F. Remmers, PhD	National Institute of Arthritis and Musculoskeletal and Skin Diseases	GNS
David M. Rempel, MD	University of California, San Francisco	MSD
Ruibao Ren, MD, PhD	Brandeis University	HEME
Rolf F. Renne, MD, PhD	Case Western Reserve University	AARR
Elizabeth A. Repasky, PhD	Roswell Park Cancer Institute	IMM
Mark A. Reynolds, DDS, PhD	University of Maryland Baltimore Professional School	MSD
Nancy R. Reynolds, PhD	Ohio State University	AARR

Alireza R. Rezaie, PhD	St. Louis University	HEME
James G. Rheinwald, PhD	Brigham and Women's Hospital	MSD
Robert E. Rhoads, PhD	Louisiana State University Health Sciences Center	IDM, NMS
Judith C. Rhodes, PhD	University of Cincinnati	IDM
George A. Ricaurte, MD, PhD	Johns Hopkins University	BBBP
Gary S. Richardson, MD	Sleep Disorders and Research Center	BDCN
Jennifer Richer, PhD	University of Colorado	ENR
Ellen R. Richie, PhD	University of Texas M.D. Anderson Cancer Center	IMM
David P. Richman, MD	University of California, Davis	IMM
Joel D. Richter, PhD	University of Massachusetts Medical School, Worcester	CDF
George B. Richter-Addo, PhD	University of Oklahoma, Norman	BPC
Dennis W. Rickman, PhD	Duke University	MDCN
Wasima N. Rida	Food and Drug Administration	AARR
Stanley R. Riddell, MD	Fred Hutchinson Cancer Research Center	IMM
David Ray Riddle, PhD	Wake Forest University Health Sciences	MDCN
Thomas Ried, MD	National Cancer Institute	GNS
Daniel B. Rifkin, MD, PhD	New York University	BCS
Robert Rifkin, MD	Barnes-Jewish Hospital	SRB
Basil A. Rigas, DSc, MD	Institute For Cancer Prevention	ONC, PPS
Bruce B. Riley, PhD	Texas A&M University	CDF
David L. Rimm, MD, PhD	Yale University School of Medicine	ONC
Linda M. Rinaman, PhD	University of Pittsburgh	IFCN
Mercedes R. Rincon, PhD	University of Vermont	IMM
John J. Rinehart, MD	University of Alabama at Birmingham	ONC
Dario L. Ringach, PhD	University of California, Los Angeles	IFCN
John M. Rinzel, PhD	New York University	IFCN
John R. Riordan, PhD	Mayo Clinic, Arizona	PPS
Lance J. Rips, PhD	Northwestern University	BBBP
Jean Roayaei, PhD	East Carolina University	ONC
Bernard Robaire, PhD	McGill University	ENR
Joanne Robbins, PhD	University of Wisconsin Medical School	HOP
David Roberts, PhD	National Cancer Institute	BCS
Margot R. Roberts, PhD	University of Virginia Health System	AARR
Mark S. Roberts, MD	University of Pittsburgh School of Medicine	AARR
Robert E. Roberts, MD, PhD	University of Texas Health Science Center, Houston	HOP
Lee Robertson, PhD	Oregon Health and Science University	BBBP
Cynthia S. Robins, PhD	Westat	RPHB
Rafaela R. Robles, EdD	Universidad Central Del Caribe	AARR
David M. Rocke, PhD	University of California, Davis	HOP
Dan M. Roden, MD	Vanderbilt University	CVS
Steven L. Roderick, PhD	Yeshiva University	BPC
Karin D. Rodland, PhD	Oregon Health and Science University	ONC
Annabelle Rodriguez, MD	Johns Hopkins University	CVS
Anna W. Roe, MD, PhD	Vanderbilt University	IFCN
Paul D. Roepke, PhD	Georgetown University	IDM
Sandra C. Roerig, PhD	Louisiana State University	IFCN
John C. Roeske	University of Chicago	IMM
Richard C. Rogers, PhD	Louisiana State University Pennington Biomedical Research Center	IFCN
Richard G. Rogers, PhD	University of Colorado	HOP
Susan M. Rogers, PhD	Research Triangle Institute	AARR
Mark D. Rollag, PhD	Uniformed Services University of Health Sciences	IFCN
Jannick P. Rolland, PhD	University of Central Florida	SRB
Beth L. Roman	Georgetown University Medical Center	CVS
Brian B. Roman, PhD	University of Illinois at Chicago	SRB
Christopher A. Roman, PhD	State University of New York Downstate Medical Center	IMM
Jesse R. Roman, MD	Atlanta Veterans Affairs Medical Center	PPS
Lizabeth M. Romanski, PhD	University of Rochester	IFCN
Michael F. Romero, PhD	Case Western Reserve University	MSD
Floyd E. Romesberg, PhD	Scripps Research Institute	BPC
Dorit Ron, PhD	University of California, San Francisco	IFCN

Zeev A. Ronai, PhD	Mount Sinai Medical Center	ONC
Burton Rosan, DDS	University of Pennsylvania	MSD
C. E. Rose, MD	University of Virginia Health Sciences Center	PPS
Jennifer S. Rose, PhD	Brown University	HOP
Richard J. Rose, PhD	Indiana University	HOP
Saul Roseman, PhD	Johns Hopkins University	IDM
Jeffrey B. Rosen, PhD	University of Delaware	IFCN
Joseph M. Rosen, MD	Dartmouth College	MSD
Michael K. Rosen, PhD	University of Texas Southwestern Medical Center at Dallas	BPC
Lynn Rosenberg, DSc, ScD	Boston University	HOP
Joseph D. Rosenblatt, MD	University of Miami School of Medicine	ONC
Michael E. Rosenfeld, PhD	University of Washington	NMS
Steven S. Rosenfeld, MD, PhD	University of Alabama at Birmingham	ONC
Miriam P. Rosin, PhD	British Columbia Cancer Research Centre	MSD
Philip M. Rosoff, MD	Duke University Medical Center	ONC
Elliott M. Ross, PhD	University of Texas Southwestern Medical Center at Dallas	CVS
F. Patrick Ross, PhD	Barnes-Jewish Hospital	MSD
Jeffrey S. Ross, MD	Albany Medical College of Union University	ONC
Randal G. Ross, MD	University of Colorado Health Sciences Center	BBBP
Robert S. Ross, MD	University of California, San Diego	CVS
William N. Ross, PhD	New York Medical College	IFCN
B. R. Simon Rosser, PhD	University of Minnesota Medical School	AARR
Peter J. Rossky, PhD	University of Texas at Austin	BPC
Michael G. Rossmann, PhD	Purdue University	IDM
Caren M. Rotello, PhD	University of Massachusetts	BBBP
David M. Rothstein, MD, PhD	Yale University	IMM, SRB
Richard L. Rotundo, PhD	University of Miami School of Medicine	MDCN
Tracey A. Rouault, MD	National Institute of Child Health and Human Development	CVS
Peter J. Roughley, PhD	McGill University	MSD
Barry T. Rouse, DSc	University of Tennessee	IDM
Denis L. Rousseau, PhD	Albert Einstein College of Medicine, Yeshiva University	BPC
Joanne F. Rovet, PhD	Hospital For Sick Children	BBBP
Michael C. Rowbotham, MD	University of California	IFCN
David R. Rowley, PhD	American Urological Association	ENR
Ananda L. Roy, PhD	Tufts University	IMM
Shyamal K. Roy, PhD	University of Nebraska Medical Center	ENR
Rachel A. Royce, PhD	University of North Carolina	HOP
Lawrence S. Ruben, PhD	Dedman College	IDM
Janet E. Rubin, MD	Emory University	MSD
Katherine S. Rudolph, PhD	University of Delaware	MSD
Hallgeir Rui, MD, PhD	Georgetown University	ENR
Rolando E. Rumbaut, MD, PhD	Baylor College of Medicine	CVS
Melissa A. Runge-Morris, MD	Wayne State University	PPS
Horea Rus, MD, PhD	University of Maryland	CVS, HEME
James A. Russell, MD, PhD	University of British Columbia	BBBP
Sharon Russell, PhD	Massachusetts Institute of Technology	HOP
Thomas A. Russo, MD,	University of Buffalo	PPS
George S. Rust, MD	Morehouse School of Medicine	HOP
John C. Rutledge, MD, PhD	University of California, Davis	NMS
Carolyn M. Rutter, PhD	Center For Health Studies	HOP
James C. Ryan, MD	Northern California Institute For Research and Education	IMM
John J. Ryan, PhD	Virginia Commonwealth University	IMM
Louise M. Ryan, PhD	Harvard University School of Public Health	HOP
Benjamin A. Rybicki, PhD	Henry Ford Health Sciences Center	HOP
George Saade, MD	University of Texas Medical Branch	ENR
Virginia K. Saba, EdD	Georgetown University	HOP
Esther L. Sabban, PhD	New York Medical College	MDCN
James C. Sacchetti, PhD	Texas A&M University	HEME
Matthew S. Sachs, PhD	Oregon Health and Science University	BCS
J. Chris Sackellares, MD	University of Florida	BDCN

Moshe J. Sadofsky, MD, PhD	Yeshiva University	IMM
Junichi Sadoshima, MD, PhD	University of Medicine and Dentistry of New Jersey	CVS
Stephen H. Safe, MD	Texas A&M University Health Science Center	PPS
Steven A. Safren, PhD	Massachusetts General Hospital	AARR
E. Helene Sage, PhD	The Hope Heart Institute	BCS
Jacqueline Sagen, MD, PhD	University of Miami	IFCN
Robert L. Sah, MD, PhD	University of California, San Diego	MSD
Christie L. Sahley, PhD	Purdue University	IFCN
David J. Sahn, MD	Oregon Health and Science University	BBBP
Milton H. Saier, PhD	University of California, San Diego	IDM
Saroj Saigal, MD	Mcmaster University	BBBP
Guy Salama, PhD	University of Pittsburgh School of Medicine	SRB
Lisa M. Salati, PhD	West Virginia University	NMS
Andrej Sali, PhD	University of California, San Francisco	BPC
Daniel R. Salomon, MD	Scripps Research Institute	SRB
Alan R. Saltiel, PhD	University of Michigan	ENR
Robert F. Saltz, PhD	Prevention Research Center	HOP
Ashok K. Saluja, PhD	University of Massachusetts Medical School, Worcester	PPS
Guy S. Salvesen, PhD	Burnham Institute	BCS, BPC
Lawrence E. Samelson, MD	National Cancer Institute	IMM
David R. Samols, PhD	Case Western Reserve University	BCS
Jeffery T. Sample, PhD	St. Jude Children's Research Hospital	IDM
William B. Sampson, PhD	Brookhaven National Laboratory	BPC
Gregory P. Samsa, PhD	Duke University	HOP
Willis K. Samson, PhD	St. Louis University School of Medicine	CDF
Thaddeus T. Samulski, PhD	Duke University	ONC
Alejandro A. Sanchez, PhD	University of Utah	CDF
David E. Sandberg, PhD	Children's Hospital of Buffalo	RPHB
Gary D. Sandefur, PhD	University of Wisconsin, Madison	HOP
Ira Sanders, MD	Hackensack University Medical Center	BBBP
Michel M. Sanders, PhD	University of Minnesota	ENR
Paul W. Sanders, MD	University of Alabama at Birmingham	CVS
Virginia M. Sanders, MD, PhD	Ohio State University	CVS
Ralph D. Sanderson, PhD	University of Arkansas For Medical Sciences	BCS
Kathy Sanders-Phillips, PhD	Howard University	AARR
Mark S. Sands, PhD	Washington University	BCS
Philip L. Sannes, PhD	North Carolina State University	PPS
Steven C. Sansom, PhD	University of Nebraska Medical Center	CVS
Derek B. Sant'angelo, PhD	Sloan-Kettering Institute For Cancer Research	IMM
Clifford B. Saper, MD, PhD	Beth Israel Deaconess Medical Center	BDCN
Dipak K. Sarkar, DPH	Cook College	IFCN
Fazlul H. Sarkar, PhD	Wayne State University	ONC
Sushil K. Sarna, PhD	University of Texas Medical Branch at Galveston	PPS
Martin F. Sarter, PhD	Ohio State University	IFCN
Leslie S. Satin, PhD	Virginia Commonwealth University	NMS
Thomas N. Sato, PhD	University of Texas Southwestern Medical Center at Dallas	CVS
Abhay R. Satoskar, MD, PhD	Ohio State University	IDM
James D. Satterlee, PhD	Washington State University	BPC
Karin Sauer, PhD	State University of New York at Binghamton	IDM
Richard R. Saunders, PhD	University of Kansas	BBBP
Howard I. Savage,	George Washington University	SRB
Paul B. Savage, PhD	Brigham Young University	BPC
Rashmin C. Savani, MB	Children's Hospital of Philadelphia	PPS
Niramol Savaraj, MD	Veterans Affairs Medical Center	ONC
Nancy M. Sawtell, PhD	Children's Hospital Medical Center, Cincinnati	IDM
Stanley A. Sawyer, PhD	Washington University	GNS
Stephen T. Sawyer, PhD	Virginia Commonwealth University	ONC
Tomi K. Sawyer, PhD	Cambridge Biotech Corporation	BPC
Charles L. Saxe, PhD	Emory University	CDF
Aline G. Sayer, EdD, PhD	Harvard University	HOP

Andrew J. Saykin, PhD	Dartmouth College	BDCN
Donna M. Scanlon, PhD	State University of New York	BBBBP
Frank A. Scannapieco, DDS, DMD	State University of New York at Buffalo	MSD
Hollis Scarborough, PhD	Haskins Laboratories	BBBBP
Charles F. Schachtele, PhD	University of Minnesota, Twin Cities	MSD
Stephen W. Schaffer, PhD	University of South Alabama	NMS
Brian S. Schaffhausen, PhD	Tufts University	IDM
Richard J. Schanler, MD	Baylor College of Medicine	BBBBP
Alan F. Schatzberg, MD, PhD	Stanford University	BDCN
Harold A. Scheraga, PhD, ScD	Cornell University	BPC
Philipp E. Scherer, PhD	Albert Einstein College of Medicine, Yeshiva University	NMS
Steven S. Scherer, MD, PhD	University of Pennsylvania	MDCN
Marc H. Schieber, MD, PhD	University of Rochester	IFCN
Alexander F. Schier, PhD	New York University School of Medicine	CDF, MDCN
Celia A. Schiffer, PhD	University of Massachusetts Medical School, Worcester	AARR
Peter W. Schiller, PhD	Clinical Research Institute of Montreal	MDCN
Thomas F. Schilling, PhD	University of California, Irvine	MDCN
David D. Schlaepfer, PhD	Scripps Research Institute	CDF
Richard R. Schlegel, MD, PhD	Georgetown University	IDM
Sarah J. Schlesinger, MD	Aaron Diamond Aids Research Center	AARR, PPS
Mark S. Schlissel, MD, PhD	University of California, Berkeley	IMM
Mark D. Schluchter, PhD	Cleveland Clinic Foundation	HOP
Carl P. Schmertmann, PhD	Florida State University	HOP
Christopher H. Schmid, PhD	New England Medical Center Hospitals	BBBBP
Geert W. Schmid-Schoenbein, MD, PhD	University of California, San Diego	CVS
Ronald L. Schnaar, PhD	Johns Hopkins University	MDCN
Jonathan P. Schneck, MD, PhD	Johns Hopkins University	IMM
Anette Schneemann, PhD	Scripps Research Institute	IDM
Brandt L. Schneider, PhD	Cold Spring Harbor Laboratory	ONC
Jay S. Schneider, MD, PhD	Thomas Jefferson University	MDCN
Robert J. Schneider, PhD	New York University School of Medicine	BCS
Danny J. Schnell, PhD	University of Massachusetts	CDF
Alan L. Schneyer, MD, PhD	Massachusetts General Hospital	ENR
Robert Schoen, PhD	Pennsylvania State University	HOP
Ellie E. Schoenbaum, MD, PhD	Montefiore Medical Center	AARR
Norberta W. Schoene, PhD	United States Department of Agriculture	NMS
Nina R. Schooler, PhD	North Shore-Long Island Jewish Research Institute	HOP
Clifton M. Schor, OD, PhD	University of California, Berkeley	IFCN
Christoph E. Schreiner, MD, PhD	University of California	IFCN
John D. Schuetz, PhD	St. Jude Children's Research Hospital	ONC
Merlyn D. Schuh, PhD	Davidson College	BPC
Linda A. Schuler, DVM, MD	University of Wisconsin	ENR
Klaus J. Schulten, PhD	University of Illinois at Urbana-Champaign	BPC, MDCN
Thomas M. Schultheiss, MD, PhD	Beth Israel Deaconess Medical Center	MSD
Timothy E. Schultheiss, PhD	City of Hope/Beckman Research Institute	ONC
Mark A. Schuster, MD, PhD	University of California, Los Angeles	HOP
Gerald A. Schwarting, PhD	Shriver Center	MDCN
Bradford S. Schwartz, MD	University of Illinois at Urbana-Champaign	CVS
David H. Schwartz, MD, PhD	Johns Hopkins University	AARR
Edward L. Schwartz, PhD	Montefiore Medical Center	ONC
Gary K. Schwartz, MD	Sloan-Kettering Institute For Cancer Research	ONC
John H. Schwartz, MD	Boston Medical Center	MSD
Lawrence B. Schwartz, MD, PhD	Virginia Commonwealth University	IMM
Michael W. Schwartz, MD	Keystone Symposia	NMS
Stephen A. Schwartz, DMD, PhD	Touro College	MSD
Stephen Marc Schwartz, MD, PhD	Fred Hutchinson Cancer Research Center	HOP
Stuart Schwartz, MD, PhD	Case Western Reserve University	GNS
Pamela L. Schwartzberg	National Human Genome Research Institute	IMM
Philip A. Schwartzkroin, PhD	University of California, Davis	IFCN
Michal L. Schwartzman, PhD	New York Medical College	CVS

John J. Schwarz, PhD	Albany Medical College of Union University	CDF
James E. Schwob, MD, PhD	Tufts University School of Medicine	MDCN
Anthony Sclafani, PhD	Brooklyn College	BBBB
David W. Scott, PhD	American National Red Cross	HEME
Edward W. Scott, PhD	University of Florida	CVS
John W. Scott, PhD	Emory University	IFCN
Audrey F. Seasholtz, PhD	University of Michigan at Ann Arbor	ENR
Lee B. Sechrest, PhD	Children's Clinics For Rehabilitation Services	HOP
Timothy W. Secomb, PhD	University of Arizona	CVS
Dan Sedmak, MD	Ohio State University	IDM
Christoph Seeger, PhD	Institute For Cancer Research	IDM
Mark A. Seeger, PhD	Ohio State University	MDCN
Randy J. Seeley, PhD	University of Cincinnati	ENR, NMS
David M. Segal, PhD	National Cancer Institute	IDM
Karen R. Segal, EdD, PhD	Mount Sinai School of Medicine	NMS
Suzanne C. Segerstrom, PhD	University of Kentucky	BBBB
Neil Segil, PhD	House Ear Institute	IFCN
Amita Sehgal, PhD	University of Pennsylvania School of Medicine	GNS
David C. Seldin, MD, PhD	Boston Medical Center	ONC
Scott B. Selleck, MD, PhD	University of Minnesota, Twin Cities	BCS
Periasamy Selvaraj, PhD	Emory University	IMM
Kazue Semba, PhD	Dalhousie University	IFCN
Bert L. Semler, MD, PhD	University of California, Irvine	IDM
Ranjan Sen, PhD	Brandeis University	IMM
Alan E. Senior, PhD	University of Rochester	BPC
Chun Seow, PhD	University of British Columbia	PPS
Richard W. Serna, PhD	Praxis, Inc	BBBB
Laurent Seroude, PhD	Queen's University at Kingston	MSD
Julianne M. Serovich, PhD	Ohio State University	AARR
Rosa A. Serra, PhD	University of Alabama at Birmingham	MSD, ONC
David V. Serreze, PhD	Jackson Laboratory	IMM
Peter Setlow, PhD	University of Connecticut Health Center	IDM
Edward Seto, PhD	University of South Florida	ONC
Lori A. Setton, PhD	Duke University	MSD
William N. Setzer, PhD	University of Alabama	BPC
Herbert H. Severson, PhD	Oregon Research Institute	HOP
Geraldine C. Seydoux, PhD	Johns Hopkins University School of Medicine	ENR
Robert M. Seyfarth, PhD	University of Pennsylvania	BBBB
Yavin Shaham, PhD	Center For Addiction and Mental Health	BBBB
Timothy A. Shahan, PhD	Utah State University	BBBB
David I. Shalloway, PhD	Cornell University, Ithaca	CDF
Michael J. Shablott, PhD	Johns Hopkins University	NMS
Raj Shankarappa, PhD	Allegheny-Singer Research Institute	AARR
Marty Shankland, PhD	University of Texas at Austin	MDCN
Ram Shanmugam, PhD	Southwest Texas State University	AARR, HOP
John M. Shannon, PhD	Children's Hospital Research Foundation	ENR
Robert Shannon, PhD	House Ear Institute	HOP
Irving M. Shapiro, DDS	Thomas Jefferson University	MSD
Lewis P. Shapiro, PhD	San Diego State University	BBBB
Geoffrey W. Sharp, DSc, PhD	Cornell University, Ithaca	NMS
Patricia E. Sharp, PhD	Bowling Green State University	IFCN
Kathy L. Sharpe-Timms, PhD	University of Missouri, Columbia	ENR
Andrey S. Shaw, MD	Washington University	IMM
Daniel S. Shaw, PhD	University of Pittsburgh	RPHB
Denise R. Shaw, PhD	University of Alabama at Birmingham	ONC
Janet M. Shaw, PhD	University of Utah	CDF
Leslie M. Shaw, PhD	Beth Israel Deaconess Medical Center	BCS
Jerry Shay, PhD	University of Texas Southwestern Medical Center at Dallas	CDF
Michael P. Sheetz, PhD	Columbia University	CVS
M. Saeed Sheikh, MD, PhD	State University of New York Upstate Medical University	ENR

Gregory S. Shelness, MD, PhD	Wake Forest University Health Sciences	NMS
Ruoqian Shen, PhD	Weill Medical College of Cornell University	ENR
Shijie Sheng, PhD	Wayne State University	ONC
Shirish Shenolikar, PhD	Duke University School of Medicine	BCS
Kenneth J. Sher, PhD	University of Missouri, Columbia	HOP
Murray S. Sherman, PhD	State University of New York at Stony Brook	IFCN
Wenyuan Shi, PhD	University of California, Los Angeles	IDM
Xianglin Shi, PhD	West Virginia University	ONC
Yigong Shi, PhD	Keystone Symposia	BPC
Yufang Shi, DVM, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	IMM
Atsuko Shibata, MD, PhD	Stanford University School of Medicine	HOP
Dennis Shields, PhD	Albert Einstein College of Medicine, Yeshiva University	CDF, ENR
Peter G. Shields, MD	Georgetown University Medical Center	HOP
Margaret M. Shiffar, PhD	Rutgers University	BBBP
Ali Shilatifard, PhD	St. Louis University	CDF
Yoji Shimizu, PhD	University of Minnesota Medical School	BCS
Yeon-Kyun Shin, PhD	Iowa State University	BPC
Dorothy E. Shippen, PhD	Texas A&M University	CDF
Carol A. Shively, PhD	Wake Forest University Health Sciences	BBBP
Kathleen T. Shiverick, PhD	University of Florida	PPS
Mark J. Shlomchik, MD, PhD	Yale University	IMM
Robert J. Shmookler-Reis, DPH	University of Arkansas For Medical Sciences	MSD
Menachem Shoham, PhD	Case Western Reserve University	BPC
Brian K. Shoichet, PhD	University of California, San Francisco	BPC
Molly S. Shoichet, PhD	University of Toronto	SRB
David R. Shortle, MD, PhD	Johns Hopkins University	BPC
Patrick E. Shrout, PhD	New York University	HOP
Charles F. Shuler, DDS, DMD	University of Southern California	MSD
Stewart H. Shuman, MD, PhD	Sloan-Kettering Institute For Cancer Research	IDM
K. Kirk Shung, PhD	University of Southern California	SRB
Dikoma C. Shungu, PhD	Mount Sinai School of Medicine	SRB
Michael R. Shurin, MD, PhD	University of Pittsburgh	MSD
Ann-Bin Shyu, PhD	University of Texas Health Science Center, Houston	CDF
Nicholas E. Sibinga, MD	Yeshiva University	CVS
David P. Siderovski, PhD	University of North Carolina, Chapel Hill	CDF
John J. Sidtis, PhD	New York University School of Medicine	BBBP
Dietmar W. Siemann, PhD	University of Florida Health Science Center	ONC
Steven Sikes, PhD	Aquera Company, LLC	MSD
Stephen D. Silberstein, MD	Jefferson Headache Center	MDCN
Pamela A. Silver, PhD	Dana-Farber Cancer Institute	BCS
Robert H. Silverman, PhD	Cleveland Clinic Foundation	IDM
Scott K. Silverman, PhD	University of Illinois at Urbana-Champaign	BPC
Marc J. Simard, MD, PhD	University of Maryland	BDCN
Richard B. Simerly, PhD	Oregon Health and Science University	MDCN
Laura A. Siminoff, PhD	Case Western Reserve University	HOP
Katherine Siminovitch, MD	Mount Sinai Hospital	IMM
Anthony Simmons, MD, PhD	University of Texas Medical Branch at Galveston	GNS
Daniel T. Simmons, PhD	University of Delaware	IDM
Amy R. Simon, MD	New England Medical Center Hospitals	PPS
Anne E. Simon, PhD	University of Maryland	IDM
Daniel I. Simon, MD	Brigham and Women's Hospital	CVS
Richard H. Simon, MD	University of Michigan Medical School	PPS
Guy G. Simoneau, PhD	Marquette University	MSD
Jane M. Simoni, PhD	University of Washington	AARR
Daniel J. Simons, PhD	University of Pittsburgh	IFCN
Michael Simons, MD	Dartmouth College	CVS, NMS
Pippa M. Simpson, PhD	University of Arkansas	HOP
R. Mark Simpson, DVM, PhD	National Cancer Institute	NMS
Robert T. Simpson, MD, PhD	Pennsylvania State University, University Park	CDF
Peter J. Sims, MD, PhD	Scripps Research Institute	CVS

Anthony P. Sinai, PhD	University of Kentucky College of Medicine	IDM
Steven M. Sine, PhD	Mayo Clinic, Rochester	MDCN
Michael S. Sinensky, PhD	East Tennessee State University	CVS
David J. Singel, PhD	Montana State University, Bozeman	BPC, PPS
Merrill C. Singer, PhD	Hispanic Health Council	AARR
Robert H. Singer, PhD	Albert Einstein College of Medicine, Yeshiva University	CDF
Judith Singer-Sam, PhD	City of Hope National Medical Center	GNS
Karan P. Singh, PhD	University of North Texas Health Science Center	ONC
Upinder Singh, MD	Stanford University	IDM
Scott F. Singleton, PhD	University of North Carolina, Chapel Hill	BPC
Rajita Sinha, PhD	Yale University	IFCN
Albert J. Sinusas, MD	American Society of Nuclear Cardiology	CVS
Helmy M. Siragy, MD	University of Virginia	MSD
Erik J. Sirevaag, PhD	Washington University School of Medicine	BBBP
Gale Sisney, MD	Georgetown University	SRB
Joseph H. Sisson, MD	University of Nebraska Medical Center	PPS
John W. Sixbey, MD	Louisiana State University Health Sciences Center	IDM
Maria H. Sjogren, MD	United States Army, Fort Detrick	PPS
William R. Skach, MD	Oregon Health and Science University	BCS, MSD
Shawn J. Skerrett, MD	University of Washington	PPS
Diane Skiba, PhD	University of Colorado Health Sciences Center	HOP
John W. Sleasman, MD	University of Florida	AARR
Stephen G. Sligar, PhD	University of Illinois	BPC
Bonnie F. Sloane, PhD	Wayne State University	ONC
Burton M. Slotnick, PhD	American University	IFCN
Donald F. Smee, PhD	Utah State University	IDM
Richard J. Smeyne, PhD	St. Jude Children's Research Hospital	MDCN
Brian R. Smith, MD	Yale University	SRB
Carlyle Smith, PhD	Trent University	BBBP
Daniel W. Smith, PhD	Medical University of South Carolina	HOP
David V. Smith, PhD	University of Tennessee Health Science Center	BBBP
Eric M. Smith, PhD	University of Texas Medical Branch at Galveston	IFCN
J. David Smith, PhD	State University of New York at Buffalo	BBBP
Kenneth R. Smith, MD	St. Louis University	BDCN
Malcolm M. Smith, PhD	University of Virginia School of Medicine	GNS
Michael B. Smith, PhD	Pennsylvania State University Hershey Medical Center	SRB
Michael F. Smith, PhD	University of Virginia Health Sciences Center	IMM
Nadine B. Smith, PhD	Pennsylvania State University, University Park	SRB
Richard L. Smith, PhD	University of North Carolina	HOP
Thomas E. Smith, PhD	Williams College	BPC
Thomas J. Smith, PhD	Donald Danforth Plant Science Center	IDM
Duane T. Smoot, MD	Howard University	ONC
Patricia K. Sneed, MD	University of California	ONC
Beverly M. Snively, PhD	Wake Forest University School of Medicine	GNS
Alan J. Snyder, PhD	Pennsylvania State University Hershey Medical Center	SRB
Peter J. Snyder, MD	University of Pennsylvania School of Medicine	MSD
Lynn Snyder-Mackler, ScD	University of Delaware	MSD
Donald L. Sodora, PhD	University of Texas Southwestern Medical Center at Dallas	AARR
Gurkirpal S. Sohal, PhD	Medical College of Georgia	MDCN
Bernd H. Sokolowski, PhD	University of South Florida	IFCN
Mary V. Solanto-Gardner, PhD	Mount Sinai School of Medicine	BBBP
R. J. Solaro, PhD	University of Illinois at Chicago	CVS
Timothy D. Solberg, PhD	University of California, Los Angeles	ONC
Amr Soliman, MD, PhD	University of Michigan at Ann Arbor	HOP
David R. Soll, PhD	University of Iowa	IDM
Lilianna Solnica-Krezel, PhD	Vanderbilt University	CDF
Nancy G. Solomon, PhD	Miami University	BBBP
Mark J. Soloski, PhD	Johns Hopkins University	IMM
Shauna Somerville, PhD	Carnegie Institute	GNS
Jin H. Son, PhD	Winifred Masterson Burke Medical Research Institute	MDCN

Frank D. Sonnichsen, PhD	Case Western Reserve University	BPC
William E. Sonntag, PhD	Wake Forest University Health Sciences	MSD
Akshay Sood, MBBS, MD	Southern Illinois University School of Medicine	HOP
Lynn, Soong, MD, PhD	University of Texas Medical Branch at Galveston	IDM
Mohan L. Sopori, PhD	Lovelace Biomedical and Environmental Research	AARR
Dianne R. Soprano, PhD	Temple University School of Medicine	NMS, PPS
Mary G. Sorci-Thomas, PhD	Wake Forest University Health Sciences	NMS
Erik J. Sorensen, PhD	Princeton University	BPC
Glorian C. Sorensen, PhD	Dana-Farber Cancer Institute	HOP
Alexander D. Sorkin, PhD	University of Colorado Health Sciences Center	CDF
Linda S. Sorkin, PhD	American Pain Society	IFCN
Eric J. Sorscher, MD	University of Alabama at Birmingham	BCS
Hernando Sosa, PhD	Albert Einstein College of Medicine, Yeshiva University	BPC
Jeffrey A. Sosman, MD	Vanderbilt University	ONC
Scott J. South, PhD	State University of New York at Albany	HOP
Lawrence C. Sowers, PhD	Loma Linda University	ONC
Madison S. Spach, MD	Duke University	CVS
Lisa M. Spain, PhD	American National Red Cross	IMM
Remco A. Spanjaard, PhD	Boston University School of Medicine	ONC
David L. Sparks, PhD	Baylor University	IFCN
Samuel H. Speck, PhD	Yerkes Regional Primate Research Center	IDM
David J. Spector, PhD	Cold Spring Harbor Laboratory	CDF
Marcy C. Speer, PhD	Duke University Medical Center	GNS
Anne I. Sperling, PhD	University of Chicago	IMM
Andrew P. Spicer, PhD	Texas A&M University Health Science Center	MSD
Eleanor K. Spicer, PhD	Medical University of South Carolina	ONC
David Spiegel, MD, PhD	Stanford University	AARR
Daniel M. Spielman, PhD	Stanford University	BDCN
George A. Spirou, PhD	West Virginia University	IFCN
Douglas R. Spitz, PhD	University of Iowa	PPS
John K. Spitznagel, DDS, PhD	University of Maryland Baltimore Professional School	MSD
Gary A. Splitter, DVM, PhD	University of Wisconsin, Madison	IDM
Vladimir W. Spolsky, DMD	University of California, Los Angeles	MSD
Nelson P. Spruston, PhD	Northwestern University	IFCN
John R. Spurzem, MD	University of Nebraska Medical Center	PPS
Narasimhachar Srinivasakumar, MD, PhD	Vanderbilt University	AARR
Algarsamy Srinivasan, MD	Thomas Jefferson University	AARR
Arun Srivastava, PhD	Indiana University-Purdue University, Indianapolis	BCS
Miguel J. Stadecker, MD, PhD	Tufts University, Boston	IDM
Edward A. Stadtmauer, MD	University of Pennsylvania Cancer Center	ONC
Stephen M. Stahl, MD, PhD	University of California, San Diego	BDCN
Didier Y. Stainier, PhD	University of California, San Francisco	CVS, NMS
Edward J. Stanek, PhD	University of Massachusetts	HOP
Marian T. Stankovich, PhD	University of Minnesota	BPC
Samuel L. Stanley, MD, PhD	Washington University School of Medicine	IDM
Mark E. Stanton, PhD	University of Delaware	BBBP
Patric K. Stanton, PhD	Albert Einstein College of Medicine, Yeshiva University	MDCN
Philip P. Stashenko, DMD, PhD	Harvard University Medical School	MSD
Paul Stauffer	University of California, San Francisco	ONC
Timothy P. Stearns, PhD	Stanford University	CDF
Marco Steenbergen, PhD	University of North Carolina	HOP
Bjorn Steffensen, DDS, PhD	University of Texas Health Science Center at San Antonio	MSD
Scott C. Steffensen, PhD	Brigham Young University	IFCN
Thilo Stehle, PhD	Massachusetts General Hospital	IDM
Howard Steiger, PhD	McGill University	BDCN
Daniel T. Stein, MD	Albert Einstein College of Medicine, Yeshiva University	NMS
Paul S. Stein, PhD	Washington University	IFCN
Joseph H. Steinbach, MD, PhD	Washington University	MDCN
Robert A. Steiner, PhD	University of Washington School of Medicine	ENR

Stuart Steinhauer, PhD	University of Pittsburgh School of Medicine	BDCN
Michael B. Stemerman, MD	University of California	CVS
Mary P. Stenzel-Poore, PhD	Virogenomics, Inc	ENR
Gregory N. Stephanopoulos, PhD	Massachusetts Institute of Technology	NMS
Edward B. Stephens, PhD	University of Kansas Medical Center	AARR
David W. Stepp, PhD	Medical College of Georgia	CVS
Lawrence Stern, PhD	University of Massachusetts Medical School, Worcester	IMM
Lawrence E. Stern, MD, PhD	Digene Diagnostics, Inc	IMM
Michael D. Stern, MD, PhD	National Institute On Aging	CVS
Paul C. Sternweis, PhD	University of Texas Southwestern Medical Center at Dallas	CVS
Linda D. Stetzenbach, PhD	University of Nevada	IDM
Cladd E. Stevens, MD	New York Blood Center	HOP
Troy Stevens, PhD	University of South Alabama	CVS
Freda Stevenson, PhD	Tenovus Laboratory	IMM
Caro-Beth R. Stewart, PhD	State University of New York at Albany	GNS
John M. Stewart, PhD	University of Colorado Health Sciences Center	ENR
Jon D. Stewart, PhD	University of Florida	BPC
Katharine E. Stewart, PhD	University of Arkansas For Medical Sciences	AARR
Philip S. Stewart, PhD	Montana State University, Bozeman	IDM
Richard C. Stewart, PhD	University of Maryland, College Park	IDM
Cynthia A. Stifter, PhD	Pennsylvania State University	BBBP
Charles D. Stiles, PhD	Dana-Farber Cancer Institute	MDCN
Joan Stiles, PhD	University of California, San Diego	BBBP
Douglas M. Stocco, PhD	Texas Tech University	ENR
James D. Stockand, PhD	University of Texas Health Science Center at San Antonio	MSD
Richard J. Stockert, PhD	Albert Einstein College of Medicine, Yeshiva University	PPS
Barry L. Stoddard, PhD	Fred Hutchinson Cancer Research Center	BPC
William V. Stoecker, MD	Stoecker and Associates	MSD
Christian J. Stoeckert, PhD	University of Pennsylvania	GNS
Markus Stoffel, MD, PhD	The Rockefeller University	NMS
Stanko S. Stojilkovic, PhD	National Institute of Child Health and Human Development	CDF
David L. Stokes, PhD	New York University School of Medicine	BPC
Victor Stollar, MD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	IDM
James R. Stone, MD, PhD	Massachusetts General Hospital	CVS
Martin J. Stone, PhD	Indiana University, Bloomington	IMM
Michael P. Stone, PhD	Vanderbilt University	PPS
Catherine M. Stoney, PhD	Ohio State University	BBBP
Edward G. Stopa, MD	Rhode Island Hospital (Providence, RI)	BDCN
Barry E. Storer, PhD	Fred Hutchinson Cancer Research Center	ONC
Daniel R. Storm, PhD	University of Washington	IFCN
Karen A. Storthz, PhD	University of Texas Dental Branch	MSD
Roland Stoughton, PhD	Rosetta Inpharmatics	GNS
Zachary N. Stowe, MD	Emory University	BDCN
Steffanie A. Strathdee, PhD	Johns Hopkins University	AARR
Gary R. Strichartz, PhD	Brigham and Women's Hospital	IFCN
Dudley K. Strickland, PhD	American National Red Cross	CVS
Boris Striepen, PhD	University of Georgia	IDM
Kingman P. Strohl, MD	Case Western Reserve University	PPS
Roland K. Strong, PhD	Fred Hutchinson Cancer Research Center	IMM
Jeffrey K. Stross, MD	University of Michigan	HOP
Kevin Struhl, PhD	Harvard University	CDF
Marie J. Stuart, MB, MD	Thomas Jefferson University	HEME
Lisa J. Stubbs, PhD	University of California	GNS
Bing Su, PhD	University of Texas M.D. Anderson Cancer Center	CVS, IMM
Min-Ying L. Su, PhD	University of California	SRB
Papasani V. Subbaiah, PhD	Rush-Presbyterian-St. Luke's Medical Center	CVS
John R. Subjeck, PhD	Corixa Corporation	ONC
Frederick J. Suchy, MD	Mount Sinai School of Medicine	PPS
Janice R. Sufrin, PhD	Roswell Park Cancer Institute	BCS
Hiroaki Suga, PhD	State University of New York at Buffalo	BPC

Kent D. Sugden, PhD	University of Montana	PPS
Hei S. Sul, PhD	University of California	BCS
Paul M. Sullam, MD	Northern California Institute For Research and Education	IDM
Bruce A. Sullenger, PhD	Duke University Medical Center	HEME
Edith V. Sullivan, PhD	Stanford University	IFCN
Sean M. Sullivan, PhD	University of Florida	BCS, IMM
William T. Sullivan, PhD	University of California, Santa Cruz	GNS
Vera J. Suman, PhD	Mayo Clinic, Arizona	ONC
Fengzhu Sun, PhD	University of Southern California	HOP
Ren Sun, PhD	University of California, Los Angeles	AARR
Zijie Sun, MD, PhD	Stanford University School of Medicine	ONC
Uma Sundaram, MD	University of Rochester Medical Center	PPS
Mary E. Sunday, MD, PhD	Brigham and Women's Hospital	ENR
Wesley I. Sundquist, PhD	University of Utah	AARR
Paula Sundstrom, PhD	Dartmouth College	AARR
Ezra S. Susser, DPH	Columbia University Health Science Center	HOP
Mark A. Sussman, PhD	San Diego State University	AARR, CVS
Steven Y. Sussman, PhD	University of Southern California	HOP
Kelly J. Suter, PhD	Emory University	ENR
Robert J. Sutherland, PhD	University of Lethbridge	IFCN
R. Bryan Sutton, PhD	University of Texas Medical Branch	BPC
Larry J. Suva, PhD	University of Arkansas For Medical Sciences	CDF
Yuichiro J. Suzuki, PhD	Georgetown University	PPS
Clive Svendsen, PhD	University of Wisconsin	MDCN
Karel Svoboda, PhD	Cold Spring Harbor Laboratory	MDCN
Harvey A. Swadlow, PhD	University of Connecticut, Storrs	IFCN
Sankar Swaminathan, MD	University of Florida	AARR
Scott D. Swanson, PhD	University of Michigan at Ann Arbor	PPS
Holly A. Swartz, MD	Western Psychiatric Institute and Clinic	RPHB
Kenton J. Swartz, MD, PhD	Harvard University Medical School	MDCN
James A. Swenberg, DVM, PhD	University of North Carolina, Chapel Hill	ONC
Larry L. Swift, PhD	Vanderbilt University	NMS
Robert M. Swift, MD, PhD	Brown University	IFCN
Susan E. Swithers, PhD	Purdue University, West Lafayette	BBBP
Galen E. Switzer, PhD	University of Pittsburgh Medical Center	HOP
George E. Taffet, MD	Baylor College of Medicine	MSD
Helen B. Tager-Flusberg, PhD	Boston University, Medical Campus	BBBP
Paul H. Taghert, PhD	Washington University	IFCN
Taha E. Taha, MD, PhD	Johns Hopkins University	AARR
Hsin-Hsiung Tai, PhD	University of Kentucky	BCS
David A. Talmage	Columbia University Health Science Center	IDM
Pablo Tamayo, PhD	Massachusetts Institute of Technology	ONC
John W. Tamkun, PhD	University of California, Santa Cruz	CDF
Lukas K. Tamm, PhD	University of Virginia	BPC
Tse-Hua Tan, PhD	Baylor College of Medicine	ONC
Careen K. Tang, PhD	Georgetown University	ONC
Pei Tang, PhD	University of Pittsburgh	BPC
Robert L. Tanguay, PhD	Oregon State University	PPS
Arnold W. Tank, PhD	University of Rochester	MDCN
Rosemary Tannock, PhD	Hospital For Sick Children (Toronto)	BBBP
William P. Tansey, PhD	Cold Spring Harbor Laboratory	BCS
Lin Tao, DDS, PhD	University of Illinois at Chicago	MSD
Alexander Tarakhovskiy, MD, PhD	The Rockefeller University	IMM
Marc Tatar, PhD	Brown University	CDF
Mary L. Taub, PhD	State University of New York at Buffalo	MSD
Jeffrey S. Taube, PhD	Dartmouth College	IFCN
Jeffery K. Taubenberger, MD, PhD	American Registry of Pathology, Inc	IDM
Roma L. Taunton, PhD	University of Kansas Medical Center	HOP
Ann G. Taylor, EdD	University of Virginia	HOP
Anna N. Taylor, PhD	University of California, Los Angeles	AARR

Doris A. Taylor, MD, PhD	Duke University Medical Center	CVS
Douglas D. Taylor, PhD	University of Louisville School of Medicine	ENR
Hugh S. Taylor, MD	Yale University School of Medicine	ENR
Michael J. Taylor, PhD	Organ Recovery Systems, Inc	BDCN
Richard E. Taylor, PhD	University of Notre Dame	BPC
Robert N. Taylor, MD, PhD	University of California, San Francisco	ENR
Ronald P. Taylor, PhD	University of Virginia	IMM
Alice P. Telesnitsky, PhD	University of Michigan at Ann Arbor	AARR
Ba-Bie Teng, PhD	University of Texas Health Science Center, Houston	CVS
Martin P. Tenniswood, PhD	University of Notre Dame	ONC
Linda A. Teplin, PhD	Northwestern University	RPHB
James M. Tepper, PhD	Rutgers University	IFCN
David H. Terman, PhD	Ohio State University	IFCN
Mary B. Terry, PhD	Columbia University	HOP
Douglas M. Teti, PhD	Pennsylvania State University, University Park	RPHB
Ravi I. Thadhani, MD	Massachusetts General Hospital	HOP
Gunvant K. Thaker, MD	University of Maryland	BDCN
Nitish V. Thakor, PhD	Johns Hopkins University	IFCN
David S. Thaler, PhD	The Rockefeller University	GNS
Steven M. Theg, PhD	University of California, Davis	CDF
Elizabeth C. Theil, PhD	Children's Hospital and Research Center at Oakland	BCS
David A. Theilmann, PhD	Pacific Agri-Food Research Center	IDM
Theoharis C. Theoharides, MD, PhD	Tufts University School of Medicine	BBBP
Michael J. Therien, PhD	University of Pennsylvania	BPC
Larry N. Thibos, PhD	Quartermen Optical, Inc	IFCN
Dennis J. Thiele, PhD	University of Michigan at Ann Arbor	CDF
George R. Thoma, PhD	National Library of Medicine	MSD
Alun Thomas, PhD	University of Utah	GNS
D. Denee Thomas, PhD	University of Texas Health Science Center at San Antonio	MSD
Gary Thomas, PhD	Oregon Health and Science University	ENR
George J. Thomas, PhD	University of Missouri, Kansas City	BPC
James D. Thomas, MD	Cleveland Clinic Foundation	CVS
James L. Thomas, PhD	Mercer University Macon	ENR
Thresia Thomas, PhD	Robert Wood Johnson Medical School	ONC
Mary Jane Thomassen, PhD	Cleveland Clinic Foundation	PPS
Kai E. Thomenius, PhD	General Electric	SRB
Anthony Thompson, PhD	University of Alabama at Birmingham	CVS
Lee A. Thompson, PhD	Case Western Reserve University	HOP
Robert W. Thompson, MD	Washington University	SRB
Roger K. R. Thompson, PhD	Franklin and Marshall College	BBBP
Sharon L. Thompson-Schill, PhD	University of Pennsylvania	IFCN
Gerald H. Thomsen, PhD	State University of New York at Stony Brook	CDF
Glenys Thomson, PhD	University of California, Berkeley	IMM
Ann D. Thor, MD	University of Oklahoma Health Sciences Center	ONC
David W. Threadgill, PhD	University of North Carolina, Chapel Hill	GNS
Carl S. Thummel, PhD	University of Utah	CDF
Bruce Tidor, PhD	Massachusetts Institute of Technology	BPC
D. Peter Tieleman, PhD	University of Calgary	MDCN
James M. Tielsch, PhD	Johns Hopkins University	HOP
Gabor J. Tigyi, MD, PhD	Federation of American Societies For Experimental Biology	ONC
Adrian T. Ting, PhD	Mount Sinai School of Medicine	IMM
Jenny P. Ting, MD, PhD	University of North Carolina	IMM
Margaret Tipple, MD	Virginia Department of Health	HOP
Peter A. Tipton, PhD	Gordon Research Conferences	BCS
Marcus A. Tius, PhD	University of Hawaii	MDCN
Thea D. Tlsty, PhD	University of California, San Francisco	ONC
Stuart A. Tobet, PhD	Colorado State University	MDCN
Arthur W. Toga, PhD	University of California, Los Angeles	HOP, SRB
Maria Tomasz, PhD	City College of New York	ONC
Robert D. Tomlinson, PhD	University of Toronto	IFCN

Stephen Tomlinson, PhD	University of South Carolina	IMM
Peter J. Tonellato, PhD	Medical College of Wisconsin	GNS
Roger B. Tootell, PhD	Massachusetts General Hospital	IFCN
L. D. Timmie Topoleski, PhD	University of Maryland Baltimore Professional School	MSD
Elizabeth M. Topp, PhD	University of Kansas	CVS
Dennis A. Torchia, PhD	National Institute of Dental and Craniofacial Research	CDF
Lucia V. Torian, PhD	New York City Department of Health	AARR
Ligia G. Toro, PhD	University of California, Los Angeles	CVS
Nancy I. Totah, PhD	Syracuse University	BPC
Michael J. Toth, PhD	University of Vermont	MSD
Tim M. Townes, PhD	University of Alabama at Birmingham	HEME
Maret G. Traber, PhD	Oregon State University	NMS
James W. Tracy, PhD	University of Wisconsin, Madison	IDM
Russell P. Tracy, PhD	University of Vermont and State Agricultural College	HOP
Gregg E. Trahey, PhD	Duke University	SRB
Daniel T. Tranel, PhD	University of Iowa College of Medicine	IFCN
Natalia A. Trayanova, PhD	Tulane University	CVS
Stephen F. Traynelis, PhD	Vanderbilt University	MDCN
Maria Trent, MD	Johns Hopkins University	HOP
Katrina T. Trevor, PhD	Arizona Cancer Center	SRB
Timothy J. Triche, MD, PhD	Children's Hospital Los Angeles	ONC
James S. Trimmer, PhD	University of California, Davis	MDCN
Pierre L. Triozzi, MD	University of Alabama at Birmingham	ONC
Stephen B. Trippel, MD	Massachusetts General Hospital	MSD
Karen F. Trocki, PhD	California Research and Analysis	AARR
Bruce R. Troen, MD	University of Miami	MSD
Robert T. Trotter, PhD	Northern Arizona University	HOP
Robert F. Troxler, PhD	Boston University	MSD
Susan L. Trumbetta, PhD	University of Louisville	HOP
Donald L. Trump, MD	Roswell Park Cancer Institute	ONC
Dennis R. Trune, PhD	Oregon Health and Science University	HOP
Michael A. Trush, PhD	Johns Hopkins University School of Hygiene	PPS
George A. Truskey, PhD	Duke University	SRB
Ah-Lim Tsai, PhD	University of Texas Health Science Center, Houston	BPC
Li-Huei Tsai, DVM, MD	Harvard University Medical School	MDCN
Ming-Daw D. Tsai, PhD	Ohio State University	BPC
Pamela S. Tsang, PhD	Wright State University	BBBP
Betty P. Tsao, PhD	University of California, Los Angeles	IMM
Philip S. Tsao, PhD	Stanford University School of Medicine	NMS
Harley Y. Tse, PhD	Wayne State University	IMM
Scheffer C. Tseng, MD, PhD	Tissuetech, Inc	MDCN
Joe Z. Tsien, PhD	Princeton University	IFCN
Mendel Tuchman, MD	Children's Research Institute	BCS
Helen Tudor, PhD	Hospital For Special Surgery	MSD
Alda Tufro, MD, PhD	Yeshiva University	CVS
Salvatore J. Turco, PhD	University of Kentucky Medical Center	IDM
Lubomir P. Turek, MD	University of Iowa College of Medicine	AARR
James N. Turner, PhD	Wadsworth Center	SRB
Russell T. Turner, PhD	Mayo Clinic, Rochester	PPS
Stephen W. Turner, PhD	Nanofluidics, Inc	GNS
Angelo Turturro, PhD	Food and Drug Administration	MSD
Theresa A. Tuthill, PhD	Pfizer Global Research and Development	SRB
Donald B. Twieg, PhD	University of Alabama at Birmingham	SRB
Leo B. Twiggs, MD	University of Miami School of Medicine	ENR
Suresh C. Tyagi, PhD	University of Louisville	CVS
Kenneth L. Tyler, MD	University of Colorado	IDM
Angela L. Tyner, PhD	University of Illinois at Chicago	PPS
Saul V. Tzipori, DSc, DVM	Tufts University	AARR
Edward Uberbacher, PhD	Genetic Biosystems, Inc	GNS
Susan B. Udin, PhD	State University of New York	IFCN

Thomas W. Uhde, MD	Wayne State University	BBBP
Joy A. Umbach, PhD	University of California, Los Angeles	MDCN
Marion K. Underwood, PhD	University of Texas at Dallas	RPHB
Thomas R. Unnasch, PhD	University of Alabama at Birmingham	IDM
Steve J. Upton, PhD	Kansas State University	AARR
Walter J. Urba, MD, PhD	Providence Portland Medical Center	ONC
Henryk F. Urbanski, PhD	Oregon Health and Science University	ENR
Akhil B. Vaidya, PhD	Drexel University	IDM
Chandan J. Vaidya, PhD	Georgetown University	BBBP
Sandor Vajda, PhD	Boston University, Charles River Campus	BPC
Hector H. Valdivia, MD, PhD	University of Wisconsin Medical School	CVS
Linda Van Aelst, PhD	Cold Spring Harbor Laboratory	CDF
Stephen K. Van Den Eeden, PhD	Kaiser Foundation Research Institute	HOP
Wilfred Van Der Donk, PhD	University of Illinois	BPC
Willem A. Van Der Donk, PhD	University of Illinois at Urbana-Champaign	BPC
Albert J. Van Der Kogel, PhD	University Medical Center	ONC
Deneys R. Van Der Westhuyzen, PhD	University of Kentucky	NMS
Jan M. Van Deursen, PhD	Mayo Clinic, Rochester	ONC
Frances M. Van Dolah, PhD	National Oceanographic & Atmospheric Administration	PPS
Gregory D. Van Duynes, PhD	University of Pennsylvania School of Medicine	BPC
Erwin G. Van Meir, PhD	Emory University	ONC
Nicolai S. Van Oers, PhD	University of Texas Southwestern Medical Center at Dallas	IMM
Luk H. Van Parijs, PhD	Massachusetts Institute of Technology	IMM
Cyma K. Van Petten, PhD	University of Arizona	BBBP
Gijsbert A. Van Severter, PhD	Boston University, Medical Campus	IMM
David L. Van Vranken, PhD	University of California, Irvine	BPC
David R. Van Wagoner, PhD	Cleveland Clinic Foundation	CVS, NMS
Andre J. Van Wijnen, MD, PhD	University of Massachusetts	CDF, IMM
Donna M. Van Winkle, PhD	Oregon Health and Science University	CVS
Henry F. Vanbroeklin, PhD	Lawrence Berkeley National Laboratory	SRB
Scott B. Vande Pol, MD, PhD	Case Western Reserve University	AARR
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Gracie Vargas, PhD	University of Texas Medical Branch at Galveston	SRB
Kottayil I. Varughese, PhD	Scripps Research Institute	BPC
Stephen F. Vatner, MD	University of Medicine and Dentistry of New Jersey	CVS
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Cyrus Vaziri, PhD	Boston University School of Medicine	ONC
Delia M. Vazquez, MD	University of Michigan Medical School	BBBP
Sigrid C. Veasey, MD, PhD	University of Pennsylvania	PPS
Andre Veillette, MD	McGill Cancer Centre	IMM
Baba C. Vemuri, PhD	University of Florida	SRB
Manjeri A. Venkatachalam, MB, MBBS	University of Texas	MSD
Donata Vercelli, MD, PhD	University of Arizona Health Sciences Center	IMM
Ajit K. Verma, PhD	University of Wisconsin Medical School	ONC
Ivan Vesely, MD, PhD	Cleveland Clinic Foundation	SRB
Monica L. Vetter, PhD	University of Utah	MDCN
Charles S. Via, MD	University of Maryland	IMM
David S. Vicario, PhD	Rutgers University	IFCN
Paolo Vicini, PhD	University of Washington	CVS
Stefano Vicini, PhD	Georgetown University	MDCN
Veronica J. Vieland, PhD	University of Iowa Colleges of Public Health	GNS
Katherine Vig, Do	Ohio State University College of Dentistry	MSD
Elizabeth Vigdor, PhD	Duke University	HOP
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Francisco J. Villarreal, MD, PhD	University of California, San Diego	CVS
Anne M. Villeneuve, PhD	Stanford University	ENR
D. Geoffrey Vince, PhD	Cleveland Clinic Foundation	SRB
Inez Vincent, PhD	University of Washington	MDCN
Beth A. Virnig, PhD	University of Minnesota, Twin Cities	HOP

Michael V. Vitiello, PhD	University of Washington	BBBP, IFCN
Tuan Vo-Dinh, PhD	Oak Ridge National Laboratory	GNS
Dennis R. Voelker, PhD	National Jewish Medical and Research Center	CDF
George P. Vogler, PhD	Pennsylvania State University, University Park	HOP
Richard G. Vogt, PhD	University of South Carolina at Columbia	GNS
Thomas Vogt, PhD	Merck Research Laboratories	CDF
Volker M. Vogt, PhD	Cornell University	IDM
Laura K. Vogtle, PhD	University of Alabama at Birmingham	BBBP
Albrecht G. Von Arnim, PhD	University of Tennessee, Knoxville	GNS
Harald Von Boehmer, MD, PhD	Dana-Farber Cancer Institute	IMM
Matthias G. Von Herrath, MD	La Jolla Institute For Allergy and Immunology	IDM, IMM
Rhonda R. Voskuhl, MD	University of California, Los Angeles	BDCN
Kristiina Vuori, MD, PhD	Burnham Institute	CDF
Naren R. Vyavahare, PhD	Clemson University	SRB
Brian E. Wadzinski, PhD	Vanderbilt University Medical Center	MDCN
Alan S. Waggoner, PhD	Carnegie Mellon University	MDCN
Anthony D. Wagner, PhD	Stanford University	IFCN
Kenneth R. Wagner, PhD	University of Cincinnati	BDCN
David M. Waisman, PhD	University of Calgary	CVS
Thomas W. Wakefield, MD	University of Michigan at Ann Arbor	HEME
Gabriel Waksman, PhD	Washington University School of Medicine	BPC
Alan S. Waldman, PhD	University of South Carolina	GNS
James R. Walker, PhD	University of Wisconsin, Madison	HOP
James T. Walkup, PhD	Rutgers University	AARR
Edmund K. Waller, MD, PhD	Cerus Corporation	ONC
Reidar Wallin, PhD	Wake Forest University Health Sciences	CVS
Christopher E. Walsh, MD, PhD	Mount Sinai School of Medicine	HEME, ONC
J. Bruce Walsh, PhD	University of Arizona	IMM
Scott W. Walsh, PhD	Virginia Commonwealth University	ENR
Michael J. Walter, MD	Washington University School of Medicine	PPS
Karina L. Walters, PhD	University of Washington	AARR
Joshua A. Wand, PhD	University of Pennsylvania	BPC
Brian A. Wandell, PhD	Stanford University	IFCN
Angela U. Wandinger-Ness, PhD	University of New Mexico School of Medicine	MSD
Chyung-Ru Wang, PhD	University of Chicago	IMM
Cun-Yu Wang, DDS, PhD	University of Michigan at Ann Arbor	MSD
Hong Wang, MD, PhD	Baylor College of Medicine	CVS
Jian-Ying Wang, MD, PhD	Baltimore Veterans Affairs Medical Center	SRB
Paul P. Wang, MD, PhD	Zephon Biopharmaceuticals, Inc	BBBP
Ping Wang, MD	North Shore-Long Island Jewish Research Institute	SRB
Rongfu Wang, PhD	Baylor College of Medicine	IMM
Tong Wang, MD, PhD	Yale University	MSD
Xiao-Fan Wang, PhD	Duke University Medical Center	CDF
Yi Wang, PhD	University of Pittsburgh	SRB
Yibin Wang, PhD	University of California, Los Angeles	CVS
Yinsheng Wang, PhD	University of California, Riverside	BPC
Yong-Xiao Wang, MD, PhD	Albany Medical College of Union University	PPS
Zhou Wang, PhD	Northwestern University	ENR
Ronald L. Wange	National Institute On Aging	IMM
Ken Ward, MD, PhD	University of Utah	ENR
Kurt Warncke, PhD	Emory University	BPC
James T. Warren, PhD	Pennsylvania State University, Behrend College	CDF
Susan L. Warren, MD	George Washington University	RPHB
David M. Warshaw, PhD	Gordon Research Conferences	CVS
William J. Warzak, PhD	Meyer Rehabilitation Institute	RPHB
David A. Washburn, PhD	Georgia State University	BBBP
Michael R. Wasielewski, PhD	Northwestern University	BPC
Wyeth W. Wasserman,	University of British Columbia	GNS
Clare M. Waterman-Storer, PhD	Scripps Research Institute	MDCN
Gloria S. Waters, PhD	Boston University, Charles River Campus	BBBP

Marcey L. Waters, PhD	University of North Carolina, Chapel Hill	BPC
David I. Watkins, PhD	Wisconsin Regional Primate Research Center	AARR
Paul A. Watkins, MD, PhD	Kennedy Krieger Research Institute, Inc	BCS
Jacqueline A. Watson, DO	Health Concepts International	AARR
Ronald R. Watson, PhD	University of Arizona	PPS
Alan G. Watts, PhD	University of Southern California	IFCN
Stephanie W. Watts, PhD	Michigan State University	CVS
Marta L. Wayne, PhD	University of Florida	GNS
Casey T. Weaver, MD	University of Alabama at Birmingham	IMM
Larry S. Webber, PhD	Tulane University	HOP
Jeffrey S. Weber, MD, PhD	University of Southern California	ONC
Richard J. Weber, PhD	University of Illinois College of Medicine	IMM
Daniel S. Wechsler, MD, PhD	University of Michigan at Ann Arbor	ONC
Lynn Wecker, PhD	University of South Florida	MDCN
Carl F. Weems, PhD	University of New Orleans	BBBP
William B. Weglicki, MD	George Washington University	CVS
Li-Na L. Wei, PhD	University of Minnesota Medical Center	NMS
Paul H. Weigel, PhD	University of Oklahoma Health Sciences Center	BCS
P. Anthony Weil, PhD	Vanderbilt University Medical Center	CDF
Katherine Weilbaecher, MD	Washington University	ONC
Thomas Weimbs, PhD	Cleveland Clinic Foundation	BCS
David S. Weinberg, MD, PhD	Jefferson College	ONC
Eric S. Weinberg, PhD	University of Pennsylvania	MDCN
Joel M. Weinberg, MD	University of Michigan Medical Center	CVS
Howard L. Weiner, MD	Brigham and Women's Hospital	IMM
Geraldine A. Weinmaster, PhD	University of California, Los Angeles	MDCN
Brant M. Weinstein, PhD	National Institutes of Health	CVS
Herschel J.R. Weintraub, PhD	Caddinformatics	BPC
Bruce S. Weir, PhD	North Carolina State University	GNS
John H. Weis, PhD	University of Utah	IMM
William I. Weis, PhD	Stanford University	BPC
Daniel J. Weisdorf, MD, PhD	University of Minnesota Medical School	ONC
David S. Weiss, PhD	University of Alabama at Birmingham	MDCN
Heidi Weiss, PhD	Baylor College of Medicine	ONC
Jeffrey A. Weiss, PhD	University of Utah	MSD
Kenneth M. Weiss, PhD	Pennsylvania State University, University Park	GNS
Roy E. Weiss, MD, PhD	University of Chicago	BBBP
Bernard E. Weissman, MD, PhD	University of North Carolina	MSD, ONC
Drew Weissman, MD, PhD	University of Pennsylvania	AARR
Jonathan S. Weissman, PhD	University of California, San Francisco	CDF
Ronald C. Wek, PhD	Indiana University	BCS
Babette B. Weksler, MD	Cornell University Medical College	CVS
Michael J. Welch, MD, PhD	Washington University	BPC
Dorinda L. Welle, PhD	National Development and Research Institutes	AARR
Stephen L. Welle, PhD	University of Rochester Medical Center	MSD
Peter F. Weller, MD	Beth Israel Deaconess Medical Center	IMM
Raymund J. Wellinger, PhD	Universite De Sherbrooke	CDF
Joellen E. Welsh, PhD	University of Notre Dame	ONC
Kathleen A. Welsh-Bohmer, PhD	Duke University Medical Center	BDCN
Wade V. Welshons, PhD	University of Missouri, Columbia	ENR
David E. Wemmer, PhD	University of California	MDCN
Lari B. Wenzel, PhD	University of California, Irvine	ONC
Suzanne L. Wenzel, PhD	Rand Corporation	AARR
Martha M. Werler, ScD	Boston University, Medical Campus	HOP
John S. Werner, PhD	University of California, Davis	IFCN
Albert I. Wertheimer, PhD	Temple University	HOP
Jacqueline J. Wertsch, MD	Medical College of Wisconsin	MSD
Mark O. West, PhD	Rutgers University	IFCN
Rick A. Wetsel, PhD	University of Texas Health Science Center, Houston	IMM
Peter J. Wettstein, PhD	Mayo Clinic, Rochester	IMM

Ronald B. Wetzel, PhD	University of Tennessee	MDCN
Lee M. Wetzler, MD	Boston Medical Center	IDM
Mark Wewers, MD	Ohio State University	IMM
Mary Ellen Wewers, PhD	Ohio State University	HOP
Andrew S. Weyrich, PhD	University of Utah School of Medicine	NMS
C. Roger White, PhD	University of Alabama	NMS
David C. White, MD, PhD	University of Tennessee	MSD
Desiree A. White, PhD	Washington University	BBBBP
Hillary D. White, PhD	Dartmouth Medical School	IMM
John A. White, PhD	Boston University, Charles River Campus	IFCN
Judith M. White, PhD	University of Virginia	IDM
Kevin P. White, PhD	Yale University	MDCN
Morris F. White, PhD	Gordon Research Conferences	ENR
Theresa L. Whiteside, PhD	University of Pittsburgh Cancer Institute	IMM
Gary M. Whitford, DMD, PhD	Medical College of Georgia	MSD
Chester B. Whitley, MD, PhD	University of Minnesota, Twin Cities	BCS
Malcolm R. Whitman, PhD	Harvard University Medical School	CDF
Thomas S. Whittam, PhD	Michigan State University	GNS
Holly A. Wichman, PhD	University of Idaho	GNS
Thomas N. Wichmann, MD	Emory University	IFCN
Brian L. Wickes, PhD	University of Texas Health Science Center at San Antonio	IDM
William F. Wieczorek, PhD	Buffalo State College	HOP
Michael C. Wiener, PhD	University of Virginia	BPC
M. Guillaume Wientjes, PhD	Ohio State University	ONC
David L. Wiest, PhD	Institute For Cancer Research	IMM
Brian L. Wigdahl, PhD	Drexel University	AARR
Harvey Wigdor, DDS	Illinois Masonic Medical Center	MSD
Edythe A. Wiggs, PhD	Commonwealth Psychological Associates	BBBBP
Dan A. Wiginton, PhD	Children's Hospital Medical Center, Cincinnati	BCS
Christopher K. Wikle, PhD	University of Missouri, Columbia	HOP
Virginia L. Wilcox-Gok, PhD	Northern Illinois University	HOP
Petra E. Wilder-Smith, DDS	University of California, Irvine	SRB
Kirk C. Wilhelmsen, MD, PhD	University of California, San Francisco	GNS
Randall B. Wilkening, MD	University of Colorado	ENR
Lynne R. Wilkens, DRPH	University of Hawaii	HOP
Frances L. Wilkie, PhD	University of Miami School of Medicine	AARR
Miles F. Wilkinson, PhD	University of Texas M.D. Anderson Cancer Center	ENR
Angela Wilks, PhD	University of Maryland Baltimore Professional School	BPC
Benjamin D. Williams, PhD	University of Illinois at Urbana-Champaign	MDCN
Gary M. Williams, MD	New York Medical College	ONC
Heather Williams, PhD	Williams College	IFCN
Kenneth C. Williams, PhD	Beth Israel Deaconess Medical Center	MDCN
Lawrence E. Williams, PhD	City of Hope National Medical Center	ONC
Michelle A. Williams, DSc, MD	Swedish Medical Center, First Hill	HOP
Noreen Williams, PhD	State University of New York at Buffalo	IDM
Scott Matthew Williams, PhD	Vanderbilt University	GNS
Paul G. Williard, PhD	Brown University	BPC
Daniel T. Willingham, PhD	University of Virginia	BBBBP
Sherry L. Willis,	Agency For Healthcare Research and Quality	BBBBP
John W. Wills, PhD	Pennsylvania State University Hershey Medical Center	IDM
Thomas A. Wills, PhD	Yeshiva University	HOP
Amy R. Wilson, PhD	University of Minnesota, Twin Cities	AARR
Brian C. Wilson, PhD	University of Toronto	MSD
Brian S. Wilson, MD, PhD	Massachusetts General Hospital	IMM
Bridget S. Wilson, PhD	University of New Mexico	IMM
Charles J. Wilson, PhD	University of Texas, San Antonio	IFCN, MDCN
Duncan W. Wilson, PhD	Albert Einstein College of Medicine, Yeshiva University	IDM
Glenn L. Wilson, PhD	University of South Alabama	NMS
Hugh R. Wilson, PhD	York University	IFCN
John H. Wilson, PhD	Baylor College of Medicine	BCS

Keith T. Wilson, MD	University of Maryland Medical Center	PPS
Marlene A. Wilson, PhD	University of South Carolina	IFCN
Samuel B. Wilson, MD, PhD	Massachusetts General Hospital	IMM
Fred H. Wilt, PhD	Gordon Research Conferences	MSD
Jeffrey Wilusz, PhD	Colorado State University	CDF
Markus Wimmer, PhD	Rush-Presbyterian-St. Luke's Medical Center	HOP
Stephen C. Winans, PhD	Cornell University	IDM
Bradford E. Windle, PhD	Massey Cancer Center	GNS
Jennifer A. Windsor, PhD	University of Minnesota, Twin Cities	BBBP
Mark E. Winey, PhD	University of Colorado	CDF
Dennis R. Winge, PhD	University of Utah	BPC
Astar Winoto, PhD	University of California, Berkeley	IMM
James T. Winslow, PhD	Yerkes Regional Primate Research Center	BBBP
Jill M. Winters, PhD	Marquette University	HOP
Ken C. Winters, PhD	University of Minnesota	HOP
Kristine M. Wiren, PhD	Oregon Health and Science University	MSD
Ronald M. Wisdom, MD, PhD	University of California, Davis	ONC
Jo Ann Wise, PhD	Case Western Reserve University School of Medicine	CDF
Gregory A. Wiseman, MD	Mayo Clinic, Rochester	ONC
George B. Witman, PhD	University of Massachusetts Medical School, Worcester	CDF
Richard J. Wittebort, PhD	University of Louisville	NMS
Richard J. Wojcikiewicz, PhD	State University of New York Upstate Medical University	IMM
Cynthia Wolberger, PhD	Johns Hopkins University	BPC
Jedd D. Wolchok, MD, PhD	Sloan-Kettering Institute For Cancer Research	ONC
Michael Wolcott, PhD	Louisiana State University Medical Center	IFCN
Barry B. Wolfe, PhD	Georgetown University	IMM
Michael S. Wolfe, PhD	Brigham and Women's Hospital	BPC
Michael W. Wolfe, MD, PhD	University of Kansas	ENR
Jon A. Wolff, MD	University of Wisconsin, Madison	BCS
Alan Wolfman, PhD	Cleveland Clinic Foundation	CDF
Allan W. Wolkoff, MD	Albert Einstein College of Medicine, Yeshiva University	PPS
Gayle E. Woloschak, PhD	Northwestern University	ONC
Jonathan R. Wolpaw, MD, PhD	Wadsworth Center	MSD
Fredric E. Wondisford, MD	University of Chicago	ENR
Brian J. Wong, MD, PhD	University of California, Irvine	ONC
David W. Wong, PhD	George Mason University	HOP
Frank Y. Wong, PhD	National Asian Pacific American Families Against Substance Abuse	AARR
Philip C. Wong, PhD	Johns Hopkins University School of Medicine	MDCN
Wing H. Wong, PhD	Harvard University School of Public Health	GNS
Mary A. Woo, DNSc	University of California, Los Angeles	HOP
Charles Wood, MD	University of Nebraska	AARR
Charles E. Wood, PhD	University of Florida	ENR
W. Gill Woodall, PhD	University of New Mexico, Albuquerque	HOP
William H. Woodruff, PhD	University of California Los Alamos National Laboratory	BPC
James H. Woods, PhD	University of Michigan at Ann Arbor	IFCN
Jon P. Woods, MD	University of Wisconsin, Madison	IDM
Scott W. Woods, MD	Yale University School of Medicine	BBBP
Stephen C. Woods, PhD	University of Cincinnati	ENR
William L. Woolverton, PhD	University of Mississippi Medical Center	IFCN
Ann Word, MD	Texas Southern University	ENR
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W. Michael Wormington, PhD	University of Virginia	CDF
Lucile E. Wrenshall, MD, PhD	University of Nebraska Medical Center	SRB
Cynthia F. Wright, PhD	Medical University of South Carolina	IDM
Fred A. Wright, PhD	University of North Carolina, Chapel Hill	GNS
Peter F. Wright, MD, PhD	Vanderbilt University	IDM
Terry W. Wright, PhD	University of Rochester	AARR
Woodring E. Wright, MD, PhD	University of Texas Southwestern Medical Center at Dallas	CDF
Chuan Yue Wu, PhD	University of Pittsburgh	CDF
Chun-Fang Wu, PhD	University of Iowa	MDCN

Chung I. Wu, PhD	University of Chicago	GNS
Hulin Wu, PhD	University of Rochester	AARR, ENR
Jian-Young Y. Wu, PhD	Georgetown University	IFCN
Jie Wu, MD, PhD	University of South Florida	ONC
Xifeng Wu, MD, PhD	University of Texas M.D. Anderson Cancer Center	HOP
Kai W. Wucherpfennig, MD, PhD	Dana-Farber Cancer Institute	IMM
Christoph Wuelfing, PhD	University of Texas Southwestern Medical Center at Dallas	IMM
Stephanie L. Wunder, MD, PhD	Temple University	SRB
Deborah S. Wuttke, PhD	University of Colorado at Boulder	BCS
Zhengui Xia, PhD	University of Washington	MDCN
Yue Xiong, PhD	University of North Carolina	CDF
Jianfeng Xu, DPH	Wake Forest University Health Sciences	HOP
Rui-Ming Xu, PhD	Cold Spring Harbor Laboratory	BPC
Xiangxi Xu, PhD	Institute For Cancer Research	ONC
Xiaonan Xue, PhD	Yeshiva University	HOP
Kristine Yaffe, MD	University of California, San Francisco	BBBP
Jack C. Yalowich, PhD	University of Pittsburgh School of Medicine	ONC
Jack Yamuy, MD	University of California, Los Angeles	IFCN
Cong Yan, PhD	Children's Hospital Medical Center, Cincinnati	PPS
Elizabeth Yang, MD, PhD	Vanderbilt-Ingram Cancer Center	CDF
Otto O. Yang, MD	University of California, Los Angeles	AARR
Vincent W. Yang, MD, PhD	Emory University	PPS
James R. Yankaskas, MD	University of North Carolina, Chapel Hill	PPS
Wendell G. Yarbrough, MD, PhD	Vanderbilt University	ONC
Martin L. Yarmush, MD, PhD	Massachusetts General Hospital	ONC
Yutaka Yasui, PhD	Fred Hutchinson Cancer Research Center	ONC
Atsuko Yatani, PhD	University of Medicine and Dentistry of New Jersey	CVS
Richard D. Ye, MD, PhD	University of Illinois at Chicago	IMM
Grant R. Yeaman, PhD	Dartmouth College	ENR
Todd O. Yeates, PhD	University of California, Los Angeles	BPC
Amy S. Yee, PhD	Tufts University, Boston	CDF
Daniel K. Yee, PhD	University of Pennsylvania School of Veterinary Medicine	CVS
Douglas Yee, MD	University of Minnesota Cancer Center	ONC
Andrew Yen, PhD	Cornell University, Ithaca	CVS, ONC
Tien-Sze B. Yen, MD, PhD	Northern California Institute For Research and Education	IDM
James P. Yesinowski, PhD	Naval Research Laboratory	MSD
Kam C. Yeung, PhD	Brown University	ONC
Raymond Yeung, MD	University of Washington	PPS
Xiao-Ming M. Yin, MD, PhD	University of Pittsburgh	CDF
Douglas R. Yingst, PhD	Wayne State University	MSD
Ajit P. Yoganathan, PhD	Georgia Institute of Technology	SRB
Andrew P. Yonelinas, PhD	University of California, Davis	BBBP
Joseph Yost, PhD	University of Utah	CVS
Donn C. Young, MD, PhD	Ohio State University	ONC
James W. Young, MD	Sloan-Kettering Institute For Cancer Research	ONC
Larry J. Young, PhD	Yerkes Regional Primate Research Center	BBBP
M. R. Young, PhD	Medical University of South Carolina	ONC
Terry B. Young, PhD	University of Wisconsin, Madison	PPS
Daohai Yu, PhD	Duke University Medical Center	HOP
Jack C. Yu, DMD, MD	Medical College of Georgia	MSD
Jian-Min Yuan, MD, PhD	University of Southern California	HOP
Yan Yuan, PhD	University of Pennsylvania	IDM
Chris Yun, PhD	Emory University School of Medicine	PPS
Katherine E. Yutzey, PhD	Children's Hospital Medical Center, Cincinnati	CDF
Joseph Zabner, MD	University of Iowa	PPS
David A. Zacharias, PhD	University of Florida	IDM
Wolfgang Zacharias, PhD	University of Louisville	MSD
James P. Zacny, PhD	University of Chicago	BBBP
Ross Zafonte, DO	University of Pittsburgh	BDCN
Habib Zaghoulani, PhD	University of Minnesota, Twin Cities	IMM

Daniel S. Zahm, PhD	St. Louis University	IFCN
Mone Zaidi, MBBS, MD	Mount Sinai School of Medicine	MSD
Qasim Zaidi, PhD	State College of Optometry	IFCN
Patricia C. Zambryski, PhD	University of California	CDF
Phillip D. Zamore, PhD	University of Massachusetts Medical School, Worcester	BCS
Scott S. Zamvil, MD, PhD	University of California, San Francisco	IMM
Maria L. Zapp, PhD	University of Massachusetts Medical School	AARR
Kenneth S. Zaret, PhD	Institute For Cancer Research	CDF
Reza Zarnegar, PhD	University of Pittsburgh	ONC
Charles H. Zeanah, MD	Tulane University	RPHB
Elizabeth Zell	Centers For Disease Control and Prevention	HOP
Grant G. Zhang, PhD	University of Maryland	MSD
Heping Zhang, PhD	Yale University	BBBP
Michael Q. Zhang, PhD	Cold Spring Harbor Laboratory	GNS, ONC
Weiguo Zhang, PhD	Duke University	IMM
Zhong-Yin Zhang, PhD	Albert Einstein College of Medicine, Yeshiva University	BCS
Hongyu Zhao, PhD	Yale University	GNS
Anatoly Zhitkovich, PhD	Brown University	PPS
Jianhui Zhong, PhD	University of Rochester Medical Center	SRB
Huan-Xiang Zhou, PhD	Florida State University	BPC
Ming-Ming Zhou, PhD	Mount Sinai School of Medicine	BPC
Xiao-Hua A. Zhou, PhD	University of Washington	HOP
Cheng Zhu, PhD	Georgia Institute of Technology	BPC
Yuan Zhuang, PhD	Duke University	IMM
Rick S. Zimmerman, PhD	University of Kentucky	AARR
Robert A. Zimmermann, PhD	University of Massachusetts, Amherst	BCS
Warren R. Zipfel, PhD	Cornell University, Ithaca	IMM
Richard S. Zitomer, PhD	State University of New York at Albany	GNS
Adam Zlotnick, PhD	University of Oklahoma Health Sciences Center	AARR
Mark S. Zoccolillo, MD	McGill University	RPHB
Pierre Zoldhelyi, MD	University of Texas at Houston Medical School	CVS
Ai-Ping Zou, MD, PhD	National Institutes of Health	MSD
Zofia Zukowska, MD, PhD	Georgetown University	CVS
Zofia Zukowska-Grojec, MD, PhD	Georgetown University	CVS
Bruce L. Zuraw, MD, PhD	Scripps Research Institute	PPS
David R. Zusman, PhD	University of California, Berkeley	IDM
Mary M. Zutter, MD	Vanderbilt University	ONC
Adam Zweifach, PhD	University of Colorado Health Sciences Center	IMM

**Reviewers who served on Special Emphasis Panels**

Bizhan Aaraabi, MD	University of Maryland	BDCN
Lauren S. Aaronson, PhD	University of Kansas Medical Center	HOP
Paul J. Abbas, PhD	Central University of Iowa	IFCN
Leonard J. Abbeduto, PhD	Waisman Center For Mental Retardation	BBBP
Antonia A. Abbey, PhD	Wayne State University	AARR
Louise C. Abbott, DVM, PhD	Texas A&M University	BDCN
Hanna E. Abboud, MB, MD	University of Texas Health Science Center at San Antonio	CVS
Abdel A. Abdel-Rahman, PhD	The Brody School of Medicine	CVS, BCS
Ted G. Abel, PhD	University of Pennsylvania	IFCN
Mohamed B. Abou-Donia, PhD	Duke University Medical Center	ENR
George N. Abraham, MD, PhD	University of Rochester Cancer Center	GNS
K. M. Abraham, PhD	Covalent Associates, Inc	SRB
Robert T. Abraham, PhD	Burnham Institute	ONC
Soman N. Abraham, PhD	Duke University Medical Center	IDM, MSD
William T. Abraham, MD	Ohio State University	CVS
Dale R. Abrahamson, PhD	University of Kansas Medical Center	MSD
Harmon B. Abrahamson, PhD	University of North Dakota	IMM
Ann Abramowitz, PhD	Emory University	BBBP
Steven A. Abrams, MD	Baylor College of Medicine	MSD
Fred P. Abramson, PhD	George Washington University	BPC
Yousef Abu Kwaik, PhD	University of Kentucky Medical Center	IDM
Yousef Abu-Amer, PhD	Washington University	MSD
Domenico Accilli, MD	Columbia University	NMS
Dolores Acevedo-Garcia, PhD	Harvard University School of Public Health	HOP
Barry W. Ache, PhD	University of Florida Brain Institute	IFCN
David W. Acheson, MBBS, MD	New England Medical Center Hospitals	IDM
Samuel Achilefu, PhD	Washington University	SRB
Christian L. Achim, MD, PhD	University of Pittsburgh	AARR
Francis V. Acholla, PhD	Rohm and Haas Company	BPC
Joseph J. Ackerman, PhD	Washington University	MDCN, SRB
Susan L. Ackerman, PhD	Jackson Laboratory	BDCN
Ted S. Acott, PhD	Oregon Health and Science University	BDCN
Gyula Acsadi, MD, PhD	Wayne State University	BCS
Luis A. Actis, PhD	Miami University, Oxford	IDM
Jeffrey K. Actor, PhD	University of Texas Health Science Center, Houston	IMM
Linda S. Adair, PhD	University of North Carolina	HOP
W. Lee Adair, PhD	University of South Florida	BCS
Rodney D. Adam, MD	University of Arizona School of Medicine	IDM
Robert E. Adamec, PhD	Memorial University Newfoundland	IFCN
Jeffrey Adamovicz, PhD	United States Army Medical Research Institute of Infectious Diseases	IDM
Christopher S. Adams, PhD	Thomas Jefferson University	MSD
E. Kathleen Adams, PhD	Emory University	HOP
John H. Adams, PhD	University of Illinois at Urbana-Champaign	AARR, IDM
Julian P. Adams, PhD	University of Michigan at Ann Arbor	GNS
Kimberly D. Adams, PhD	University of Buffalo	MSD
Linda B. Adams, PhD	National Hansen's Disease Program	IDM
Sherrill L. Adams, PhD	University of Pennsylvania	MSD
Thomas C. Adams	Cleveland Clinic Foundation	MSD
Wayne D. Adams	George Fox University	BBBP
Lucile L. Adams-Campbell, PhD	Howard University	HOP
Eli Y. Adashi, MD	University of Utah Sciences Center	ENR
Elisabeth E. Adderson, MD	St. Jude Children's Research Hospital	IDM
Adeboye Adejare, PhD	Idaho State University	BPC
John Ademola, PhD	Biometrix Clinical Research	AARR
Moji Christianah Adeyeye, PhD	Duquesne University	AARR
Adam J. Adler, PhD	University of Connecticut School of Medicine and Dentistry	IMM

David A. Adler, MD	Tufts University School of Medicine	BBBB
Karen E. Adolph, PhD	New York University	BBBB
Ralph Adolphs, PhD	University of Iowa	BBBB
Samuel E. Adunyah, PhD	Meharry Medical College	ONC
Suresh G. Advani, PhD	University of Delaware	MSD
Nezam H. Afdhal, MD	Beth Israel Deaconess Medical Center	PPS
David A. Agard, PhD	University of California, San Francisco	CDF
Rajesh Agarwal, PhD	University of Colorado Health Sciences Center	ONC
Ram P. Agarwal, PhD	University of Miami	AARR, IDM
George Agich, PhD	Cleveland Clinic Foundation	IMM
Christopher R. Agnew, PhD	Purdue University, West Lafayette	RPHB
Alexander Agoulnik, PhD	Baylor College of Medicine	MSD
Bernard W. Agranoff, MD, PhD	University of Michigan	BDCN
C. Mauli Agrawal, PhD	University of Texas Health Science Center	MSD
Krishna C. Agrawal, PhD	Tulane University	AARR, CVS, HEME
Estuardo Aguilar-Cordova, PhD	Harvard University Medical School	AARR, ONC
Renato J. Aguilera, PhD	University of Texas at El Paso	CDF
Karen M. Aguirre, PhD	Clarkson University	IMM
Rexford S. Ahima, MD, PhD	University of Pennsylvania	NMS
Dennis Allan Ahlburg, PhD	University of Minnesota	HOP
Paul G. Ahlquist, PhD	University of Wisconsin, Madison	IDM
Iqbal Ahmad, PhD	University of Nebraska Medical Center	CDF
Rafi Ahmed, PhD	Emory University	IDM
S. Ansar Ahmed, DVM, PhD	Virginia Polytechnic Institute and State University	PPS
Chul W. Ahn, PhD	University of Texas Health Science Center	MSD
Woo-Kyoung Ahn, PhD	Vanderbilt University	BBBB
Sunil K. Ahuja, MD	University of Texas Health Science Center	AARR
Sue A. Aicher, PhD	Oregon Health and Science University	CDF
Christopher R. Aiken, PhD	Vanderbilt University	AARR
James E. Aikens, PhD	University of Michigan	RPHB
Gillian M. Air, PhD	University of Oklahoma	PPS
Paul S. Aisen, MD	Georgetown University	BDCN
Virginia A. Aita, PhD	University of Nebraska Medical Center	HOP
John D. Aitchison, MD, PhD	Institute For Systems Biology	CDF, GNS
Myles H. Akabas, MD, PhD	Yeshiva University	MDCN
Emmanuel O. Akala, PhD	Howard University	CVS, HEME
Susan F. Akana, PhD	University of California, San Francisco	IFCN
Metin Akay, PhD	Dartmouth College	SRB
Schahram Akbarian, MD, PhD	University of Massachusetts Medical School, Worcester	BDCN
Mark A. Akeson, PhD	University of California, Santa Cruz	BCS
Christopher W. Akey, PhD	Boston University School of Medicine	CDF
Ramesh K. Akkina, DVM, PhD	Colorado State University	AARR
Emmanuel T. Akporiaye, PhD	University of Arizona	ONC
Mirit Aladjem, PhD	National Cancer Institute	GNS
Valery Y. Alakhov, PhD	University of Quebec	MSD
Mian M. Alauddin, PhD	University of Southern California	CDF
Dolores Albarracin, PhD	University of Florida	AARR
Steven M. Albelda, MD	University of Pennsylvania School of Medicine	ONC
Benedict C. Albensi, PhD	Cleveland Clinic Foundation	BDCN
Jose Alberola-Ila, MD, PhD	California Institute of Technology	IMM
Kurt H. Albertine, MD, PhD	University of Utah	PPS
Mark J. Alberts, MD	Northwestern University	HOP
Jorge E. Albina, MD	Rhode Island Hospital (Providence, RI)	SRB
Ralph M. Albrecht, PhD	University of Wisconsin	BCS
Terrance L. Albrecht, PhD	Wayne State University	RPHB
Lorraine M. Albritton, PhD	University of Tennessee Health Science Center	GNS
Edson X. Albuquerque, MD, PhD	University of Maryland	BDCN
Elie D. Al-Chaer, Jd, PhD	University of Texas Medical Branch at Galveston	BDCN
Philip O. Alderson, MD	Columbia University Health Science Center	SRB
Grace M. Aldrovandi, MD	Children's Hospital Los Angeles	AARR

Andrew L. Alexander, PhD	University of Wisconsin, Madison	BDCN, SRB
Harold Alexander, PhD	Orthogen Corporation	MSD
Kenneth R. Alexander, PhD	University of Illinois at Chicago	CDF
Lena Al-Harhi, PhD	Rush-Presbyterian-St. Luke's Medical Center	AARR
Hydar Ali, PhD	University of Pennsylvania	MSD
Francis C. Ali-Osman, DPH	University of Texas M.D. Anderson Cancer Center	BDCN, ONC
Paul Alivisatos, PhD	University of California, Berkeley	BPC
Hayat Alkan-Onyuksel, PhD	University of Illinois at Chicago	BPC, ONC
Nabil Alkayed, MD, PhD	Oregon Health and Science University	HOP
James S. Allan, MD	Massachusetts General Hospital	PPS
Jonathan S. Allan, DVM, PhD	Southwest Foundation For Biomedical Research	AARR
David E. Alland, MD	University of Medicine and Dentistry of New Jersey	AARR, IDM
David T. Allen, PhD	University of Texas	HOP
Garland E. Allen, PhD	Washington University	GNS
James P. Allen, PhD	Arizona State University	BPC
John W. Allen, PhD	North Carolina State University	IDM
Joseph P. Allen, PhD	University of Virginia	RPHB
Karen N. Allen, PhD	Boston University	BCS
Philip A. Allen, PhD	University of Akron	BBBP
Richard P. Allen, PhD	Johns Hopkins University	BBBP
Susan A. Allen, MD, PhD	University of Alabama at Birmingham	AARR
Susan M. Allen, MD, PhD	Brown University	HOP
Mark C. Alliegro, PhD	Louisiana State University	CDF
Anthony C. Allison, MD, PhD	Surromed, Inc	AARR
David M. Allman, PhD	University of Pennsylvania School of Medicine	ONC
Alexander Almasan, PhD	Cleveland Clinic Foundation	ONC
Laura A. Almasy, PhD	Southwest Foundation For Biomedical Research	GNS
Wolfhard Almers, PhD	Oregon Health and Science University	MDCN
Steve Almo, PhD	Albert Einstein College of Medicine, Yeshiva University	CDF
Jose M. Alonso, MD, PhD	State College of Optometry	IFCN
Noam Alperin, PhD	Alperin Noninvasive Diagnostics, Inc	BBBP
Murray Alpert, PhD	New York University	BBBP
David C. Alsop, PhD	Beth Israel Deaconess Medical Center	SRB
Andrew J., Alspaugh, MD	Duke University Medical Center	IDM
Margaret Altemus, MD	Cornell University Medical College	BBBP
George C. Alter, PhD	Indiana University	HOP
Marcus Altfeld, MD, PhD	Massachusetts General Hospital	AARR
Russ B. Altman, MD, PhD	Stanford University	MDCN
Jeanne Altmann, PhD	Princeton University	BBBP
Ruth A. Altschuld, PhD	Ohio State University	CVS
Ronald D. Alvarez, MD	University of Alabama at Birmingham	ONC
Francisco J. Alvarez-Leefmans, MD, PhD	Wright State University	MDCN
Mario E. Alves, DDS, DSc	University of Illinois at Chicago	MSD
Carl R. Alving, MD	Walter Reed Army Institute of Research	AARR
Jose Ma Alvir, DrPH, PhD	New York University School of Medicine	BBBP
Duane Alwin, PhD	Pennsylvania State University, University Park	HOP, RPHB
Peter C. Amadio, MD	Mayo Clinic, Rochester	MSD
Andrea Amalfitano, DO, MD	Duke University Medical Center	GNS
Michael G. Aman, PhD	Ohio State University	BBBP
Rupert P. Amann, PhD	APD Life Sciences, Inc	ENR
Nancy M. Amato, PhD	Texas A&M University	BPC
Jayakrishna Ambati, MD, PhD	University of Kentucky	MDCN
Chris T. Amemiya, PhD	Benaroya Research Institute at Virginia Mason	CDF, IMM
Janet A. Amico, MD	University of Pittsburgh	BBBP
Robert T. Ammerman, PhD	Children's Hospital Medical Center, Cincinnati	RPHB
Christopher I. Amos, PhD	University of Texas M.D. Anderson Cancer Center	GNS
Sania Amr, MD	University of Maryland	HOP
Kurt F. Amsler, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	MSD
Jonathan Amster, PhD	University of Georgia	BPC
L. Mario Amzel, PhD	Johns Hopkins University School of Medicine	BPC

Thomas Anantharaman, PhD	University of Wisconsin, Madison	BPC
Honnava N. Ananthaswamy, PhD	University of Texas M.D. Anderson Cancer Center	MSD
Claudio Anasetti, MD	Fred Hutchinson Cancer Research Center	ONC
Joyce K. Anastasi, PhD	Columbia University	SRB
Sonia A. Ancoli-Israel, PhD	University of California, San Diego	HOP
David G. Anders, PhD	Wadsworth Center	IDM
Albert F. Anderson, PhD	Public Data Queries, Inc	HOP
Anne E. Anderson, MD	Texas Children's Hospital	BDCN
Barbara Anderson, PhD	University of Minnesota	RPHB
Burt E. Anderson, PhD	University of South Florida	IDM
Carolyn J. Anderson, PhD	Washington University School of Medicine	ONC, SRB
David J. Anderson, MD, PhD	University of Michigan at Ann Arbor	BDCN, IFCN, MDCN
George M. Anderson,	Yale University	BDCN
James A. Anderson, MD, PhD	University of North Carolina, Chapel Hill	BBBP, IFCN
James M. Anderson, MD, PhD	Case Western Reserve University	BPC, SRB
Karen S. Anderson, PhD	Yale University	AARR
Martin E. Anderson, PhD	University of Rochester	SRB
Michael Anderson, PhD	University of Hartford	BBBP
Nancy L. Anderson, PhD	University of California, Los Angeles	HOP
Page L. Anderson, PhD	Virtually Better, Inc	BBBP
Richard Rox Anderson, MD	Massachusetts General Hospital	CVS, SRB
Tammy L. Anderson, PhD	University of Delaware	RPHB
Tim J.C. Anderson, PhD	Southwest Foundation For Biomedical Research	AARR
Vernon E. Anderson, PhD	Case Western Reserve University	BPC
Wayne F. Anderson, PhD	Northwestern University Medical School	ONC
Raul Andino, PhD	University of California, San Francisco	IDM
Dale G. Ando, MD	Cell Genesys, Inc	ONC
Francisco H. Andrade, PhD	Case Western Reserve University	MSD
Joseph D. Andrade, PhD	University of Utah	PPS
Michael P. Andre, PhD	Veterans Medical Research Foundation, San Diego	SRB
Dennis L. Andress, MD	University of Washington	PPS
Deborah J. Andrew, PhD	Johns Hopkins University	CDF
Gerard Andrews, PhD	United States Army Medical Research Institute of Infectious Diseases	IDM
Ourania M. Andrisani, MD, PhD	Purdue University	ENR
Michael A. Andrykowski, PhD	University of Kentucky	GNS
Carol S. Aneshensel, PhD	University of California, Los Angeles	RPHB
Mark G. Angelos, MD	Ohio State University	SRB
Joseph K. Angleson, PhD	University of Denver	MDCN
Juan Anguita, PhD	University of North Carolina, Chapel Hill	IMM
Robert R. Anholt, PhD	North Carolina State University	IFCN
Lourdes Anllo-Vento, PhD	University of California, San Diego	BBBP
Ananth V. Annapragada, PhD	University of Texas Health Science Center, Houston	BPC
Aftab A. Ansari, PhD	Emory University School of Medicine	AARR
John C. Ansel, MD	Northwestern University	MSD
Kristi S. Anseth, PhD	University of Colorado	MSD
Denis Anson	College Misericordia	MSD
Toni M. Antalis, PhD	American National Red Cross	HEME
Bruno J. Anthony, PhD	University of Maryland, Baltimore	RPHB
Rustom N. Antia, PhD	Emory University	BPC, IDM
Shirin Antia, PhD	University of Arizona	BBBP
Veena B. Antony, MD	University of Florida	AARR
Bahman Anvari, PhD	Rice University	NMS
M. Sawkat Anwer, DVM	Tufts University School of Veterinary Medicine	PPS
Michael A. Apicella, MD	University of Iowa College of Medicine	IDM
Peter D. Aplan, MD, PhD	Roswell Park Cancer Institute	ONC
Bruce H. Appel, PhD	Vanderbilt University	MDCN
Andrea J. Apter, MD	University of Pennsylvania	RPHB
Victoria Arango, PhD	New York State Psychiatric Institute	BDCN
Cynthia M. Arbeeny, PhD	Geltex Pharmaceuticals, Inc	NMS
Jack L. Arbiser, MD, PhD	Emory University School of Medicine	MSD

Lydia A. Arbogast, PhD	Southern Illinois University	IFCN
Robert J. Arceci, MD, PhD	Johns Hopkins Hospital	ONC
Robert H. Arch, PhD	Washington University	BPC, IMM
Moshe Ardit, MD	Cedars-Sinai Medical Center	IMM
Laura Carmen Arena	Harvard University	RPHB
William P. Arend, MD	University of Colorado Health Sciences Center	IMM
William S. Argraves, PhD	Medical University of South Carolina	CDF
Larry G. Arlian, PhD	Wright State University	IDM
Bruce A. Armitage, PhD	Carnegie Mellon University	GNS
Roseanne Armitage, MD, PhD	University of Texas Southwestern Medical Center at Dallas	BDCN
Elwood P. Armour, PhD	William Beaumont Hospital	ONC
Steven W. Arms	Microstrain, Inc	MSD
William M. Armstead, PhD	University of Pennsylvania	IFCN
Carol L. Armstrong, PhD	Children's Hospital of Philadelphia	BBBP
Daniel W. Armstrong, PhD	Iowa State University of Science and Technology	BPC
David G. Armstrong	Xilas Medical, Inc	SRB
Dawna L. Armstrong, MD	Baylor College of Medicine	BDCN
Richard N. Armstrong, PhD	Vanderbilt University School of Medicine	BCS
William Armstrong, PhD	Boston College	BPC
William E. Armstrong, PhD	University of Tennessee	IFCN
M. A. Arnaout, MD	Massachusetts General Hospital	MSD
Stephan V. Arndt, PhD	University of Iowa	BBBP
Frank C. Arnett, MD	University of Texas Health Science Center, Houston	MSD
Frances H. Arnold, PhD	California Institute of Technology	BPC
Gail Ferstandig Arnold, PhD	Rutgers University	AARR
L. Eugene Arnold, MD	Ohio State University	BBBP
Larry W. Arnold, PhD	University of North Carolina, Chapel Hill	CVS
Lesley M. Arnold, MD	University of Cincinnati	MSD
Mark A. Arnold, PhD	University of Iowa	BPC
Raffi V. Aroian, PhD	University of California, San Diego	IDM
Jaroslav A. Aronowski, PhD	University of Texas Health Science Center, Houston	BDCN
Dominik Aronsky, MD, PhD	University of Utah	BPC, SRB
Arthur I. Aronson, PhD	Purdue University	IDM
Edgar A. Arriaga, PhD	University of Minnesota	BCS
Vadim Y. Arshavsky, PhD	Massachusetts Eye and Ear Infirmary	CDF
Jonathan James Art, PhD	University of Illinois at Chicago	IFCN
Carlos L. Arteaga, MD	Vanderbilt University	ONC
Nikolai O. Artemyev, PhD	University of Iowa College of Medicine	CDF
Robert C. Arzbaecher, PhD	Computers In Cardiology, Inc	CVS
Robert F. Asamow, PhD	University of California, Los Angeles	BBBP
Giorgio A. Ascoli, PhD	George Mason University	MDCN
John Ashburner, PhD	Functional Imaging Laboratory	MDCN
F. Gregory Ashby, PhD	University of California, Santa Barbara	BBBP
James Ashe, MD, PhD	University of Minnesota	IFCN
Warren K. Ashe, PhD	Howard University	IDM
Kaveh Ashenayi, PhD	University of Tulsa	ONC
Taka Ashikaga, PhD	University of Vermont and State Agricultural College	RPHB
Mohammad Ashraf, PhD	University of Cincinnati Medical Center	CVS
Paul Ashton, PhD	Control Delivery Systems, Inc	ONC
James A. Ashton-Miller, PhD	University of Michigan at Ann Arbor	MSD
Serap Askoy, PhD	Yale University School of Medicine	GNS
Marjorie A. Asmussen, PhD	University of Georgia	GNS
John A. Astin, PhD	California Pacific Medical Center, Pacific Campus	HOP
Christopher E. Aston, PhD	Oklahoma Medical Research Foundation	GNS
Gary J. Aston-Jones, PhD	University of Pennsylvania	IFCN
Anthony Atala, MD	Children's Hospital, Boston	MSD
William D. Atchison, PhD	Michigan State University	MDCN
Gerard A. Ateshian, PhD	Columbia University	MSD
Kyriacos A. Athanasiou, PhD	Rice University	MSD
Brian D. Athey, PhD	University of Michigan at Ann Arbor	BPC, MDCN

John P. Atkinson, MD	Washington University School of Medicine	BPC
Craig S. Atwood, PhD	Case Western Reserve University	BDCN
Larry D. Atwood, PhD	Boston University	HOP
Jessie L. Au, MD	Ohio State University	ONC
Jeffrey Aube, PhD	University of Kansas, Lawrence	BPC
Jane E. Aubin, PhD	University of Toronto	MSD
David T. Auble, PhD	University of Virginia Health System	IDM
Hugh J. Auchincloss, MD	Massachusetts General Hospital	SRB
Leonard H. Augenlicht, PhD	Montefiore Medical Center	ONC
Avery E. August, PhD	Pennsylvania State University	CDF, IDM
George J. Augustine, PhD	Duke University School of Medicine	MDCN
Matthews P. Augustine, PhD	University of California, Davis	BPC
Thomas M. Aune, PhD	Vanderbilt University	IMM
Laure Aurelian, PhD	University of Maryland School of Medicine	MSD
Erle Austin, MD	University of Louisville	RPHB
Wendy Joan Austin, PhD	University of Alberta	RPHB
Frederick M. Ausubel, PhD	Massachusetts General Hospital	IDM
Emik Avakian	Datatron	MSD
Maria L. Avantaggiati, MD	Georgetown University	ONC
Devron R. Averett, PhD	Anadys Pharmaceuticals, Inc	PPS
David B. Averill, PhD	Wake Forest University Health Sciences	BDCN
Anne C. Avery, DVM, PhD	Colorado State University	IDM
Andrew L. Avins, MD	Kaiser Foundation Research Institute	HOP
William R. Avison, PhD	University of Western Ontario	RPHB
Boaz Avitall, MD, PhD	University of Illinois	SRB
William F. Avrin, PhD	Quantum Magnetics, Inc	SRB
Joseph Avruch, MD	Massachusetts General Hospital	ENR
Paul H. Axelsen, MD	University of Pennsylvania	HEME, IDM
William G. Axinn, PhD	University of Michigan	HOP
Alfred Ayala, PhD	Rhode Island Hospital (Providence, RI)	SRB
Indu A. Ayappa, PhD	New York University	BBBP
Glen P. Aylward, PhD	Southern Illinois University	BBBP
Stephen R. Aylward, PhD	University of North Carolina, Chapel Hill	SRB
Pedro Aza-Blanc, PhD	Genomics Institute of Novartis Foundation	ONC
Abdu F. Azad, PhD	University of Maryland	AARR, IDM, MSD
Dimitri T. Azar, MD	Schepens Eye Research Institute	MDCN
S. A. Azizi, MD, PhD	Temple University	BDCN
Peter W. Baas, PhD	Drexel University	MDCN
Thomas L. Babb, MD, PhD	Children's Hospital of Michigan	BDCN
Patricia C. Babbitt, PhD	University of California, San Francisco	BPC
George F. Babcock, PhD	University of Cincinnati	CVS, HEME
Paul L. Babitzke, PhD	Pennsylvania State University, University Park	IDM
Michael A. Babyak	Duke University Medical Center	RPHB
Robert L. Bacallao, MD	Indiana University School of Medicine	MSD
Peter B. Bach, MD	Sloan-Kettering Institute For Cancer Research	HOP
Jocelyne H. Bachevalier, PhD	University of Texas Health Science Center, Houston	BBBP
Eric Bachmann, PhD	Miami University	SRB
Kent N. Bachus	University of Utah	MSD
Paul Bach-Y-Rita, MD	University of Wisconsin Centers	BDCN
Joseph M. Backer, PhD	Sibtech, Inc	CVS, HEME
Miroslav Backonja, MD	University of Wisconsin, Madison	IFCN
Aldo Badano, PhD	Food and Drug Administration	SRB
Joel S. Bader, PhD	Curagen Corporation	GNS
Terry A. Badger, PhD	University of Arizona	AARR
Evangelos V. Badiavas, MD, PhD	Roger Williams Hospital	SRB
Kamran Badizadegan, MD	Massachusetts General Hospital	SRB
Stephen F. Badylak, DVM, MD	University of Pittsburgh	PPS, MSD
You Han Bae, PhD	University of Utah	BCS
Wolfgang Baehr, PhD	University of Utah	CDF
Vineet Bafna, PhD	The Center For Advancement of Genomics	BPC

Debasis Bagchi, PhD	Interhealth Nutraceuticals, Inc	PPS
Helen A. Baghdoyan, PhD	University of Michigan at Ann Arbor	IFCN
Wadie F. Bahou, MD	State University of New York at Stony Brook	CVS
Herwig Baier, PhD	University of California, San Francisco	MDCN
Robert E. Baier, PhD	Society For Biomaterials	AARR, MSD
Cynthia Neese Bailes, PhD	Gallaudet University	BBBP
Susan L. Bailey, PhD	University of Illinois at Chicago	RPHB
Adam M. Bailis, PhD	City of Hope National Medical Center	ONC
Les W. Baillie, PhD	University of Maryland Biotechnology Institute	IDM
C. Noel Bairey Merz, MD	Cedars-Sinai Medical Center	RPHB
Sandra M. Bajjalieh, PhD	University of Washington	MDCN
Bill J. Baker, PhD	University of South Florida	BPC
Daniel R. Baker, PhD	Biomedical Systems and Solutions	MSD
David Baker, PhD	University of Washington	BPC
Harriet D. Baker, PhD	Winifred Masterson Burke Medical Research Institute	MDCN
Linda A. Baker, MD	University of Texas Southwestern Medical Center at Dallas	MSD
Lisa E. Baker, PhD	Western Michigan University	BBBP
Nicholas E. Baker, PhD	Albert Einstein College of Medicine, Yeshiva University	CDF
Robert G. Baker, PhD	New York University	IFCN, MDCN
Susan C. Baker, PhD	Loyola University Medical Center	IDM
Vaishali P. Bakshi, PhD	University of Wisconsin, Madison	IFCN
Carey D. Balaban, PhD	University of Pittsburgh	IFCN
Marie Balaban, PhD	Eastern Oregon State College	BBBP
William E. Balch, PhD	Scripps Research Institute	CDF
Dare Ann Baldwin, PhD	University of Oregon	BBBP
Julie A. Baldwin, PhD	Northern Arizona University	AARR, HOP
Kenneth M. Baldwin, PhD	University of California, Irvine	MSD
Thomas O. Baldwin, PhD	University of Arizona	BCS
Judith L. Balk, MD	Magee-Women's Health Corporation	BBBP, RPHB
Steven P. Balk, MD, PhD	Beth Israel Deaconess Medical Center	MSD, ONC
Kenneth J. Balkus, PhD	University of Florida	BPC
Gregory F. Ball, PhD	Johns Hopkins University	IFCN
Karlene K. Ball, PhD	University of Alabama at Birmingham	RPHB
William S. Ball, MD	University of Cincinnati	SRB
David J. Ballard, MD, PhD	Emory University	HOP
Jimmy D. Ballard, PhD	University of Oklahoma	IDM
Mary E. Ballard	Appalachian State University	RPHB
Lajos Balogh, PhD	University of Michigan at Ann Arbor	SRB
Peter D. Balsam, PhD	Columbia University	BBBP
James M. Balter, MD, PhD	University of Michigan Health System	ONC
Joseph P. Balthasar, PhD	State University of New York at Buffalo	IDM
James R. Bamburg, PhD	Colorado State University	MDCN
Jeffrey A. Banas, PhD	Albany Medical College	MSD
Jane Banaszak-Holl, PhD	University of Michigan	HOP
Jacques F. Banchereau, PhD	Baylor Research Institute	IDM
Hamid Band, MD, PhD	Evanston Northwestern Healthcare Research Institute	ONC
Vimla Band, PhD	Evanston Northwestern Healthcare Research Institute	ONC
Karen Bandeen-Roche, PhD	Johns Hopkins University	HOP
Ranjit Banerjee, PhD	New York Medical College	AARR
Ruma Banerjee, PhD	Gordon Research Conferences	BPC
Utpal Banerjee, PhD	University of California, Los Angeles	CDF
Ajay K. Banga, PhD	Mercer University In Atlanta	BCS, HEME
Naren L. Banik, PhD	Medical University of South Carolina	BDCN
Michele R. Banish	SY Technology	SRB
Gary A. Banker, PhD	Oregon Health and Science University	MDCN
H. Thomas Banks, PhD	North Carolina University	IMM
Martin S. Banks, PhD	University of California	IFCN
Thomas H. Banks, PhD	North Carolina State University	IMM
William A. Banks, MD, PhD	St. Louis University	BDCN, CVS, NMS
Navin Bansal, PhD	Indiana University-Purdue University, Indianapolis	SRB

Rekha Bansal, PhD	Novelmed Therapeutics, Inc	BDCN, CVS, HEME
Scott C. Baraban, PhD	University of California, San Francisco	BDCN
Gilda A. Barabino, PhD	Northeastern University	IMM
Grace T. Baranek, PhD	University of North Carolina, Chapel Hill	BBBP
James N. Baraniuk, MD	Georgetown University	MSD
Tom Baranowski, PhD	Baylor College of Medicine	HOP, RPHB
Francis Barany, MD, PhD	Weill Medical College of Cornell University	BCS
Elisar J. Barbar, PhD	Ohio University	BPC
George Barbastathis, PhD	Massachusetts Institute of Technology	CDF
R. Wayne Barbee, PhD	Virginia Commonwealth University	HEME
Bradford Barber, PhD	University of Arizona	SRB
Anthony F. Barbet, PhD	University of Florida	IDM
Joseph T. Barbieri, PhD	Medical College of Wisconsin	GNS, IDM
Robert L. Barbieri, MD	Brigham and Women's Hospital	ENR
Michael T. Bardo, PhD	Yaupon Therapeutics, Inc	BBBP
Stephen J. Barenkamp, MD	St. Louis University	IFCN
Steven W. Barger, PhD	University of Arkansas For Medical Sciences	BDCN, MDCN
Eric L. Barker, PhD	Purdue University, West Lafayette	MDCN
Charles K. Barlowe, PhD	Dartmouth College	CDF
Susan M. Barman, PhD	Michigan State University	PPS
Peter F. Barnes, MD	University of Texas Health Center	IDM
Stephen Barnes, PhD	University of Alabama at Birmingham	BPC
Robert J. Barnet, MD	University of Nevada, Reno	HOP
Colin J. Barnstable, DPH	Yale University	IFCN
Scott R. Barnum, PhD	University of Alabama at Birmingham	MDCN
Victor H. Barocas, PhD	University of Minnesota, Twin Cities	MSD
Ben A. Barres, MD, PhD	Gordon Research Conferences	BDCN
Alan D. Barrett, PhD	University of Texas Medical Branch at Galveston	AARR
Eugene J. Barrett, MD, PhD	University of Virginia Health Sciences Center	ENR
Harrison H. Barrett, PhD	University of Arizona	SRB
John F. Barrett, PhD	Merck and Company, Inc	IDM
Douglas E. Barrick, PhD	Johns Hopkins University	BCS, BPC
William W. Barrow, PhD	Oklahoma State University, Stillwater	AARR
Bridgette A. Barry, PhD	Georgia Institute of Technology	BPC
Michael A. Barry, PhD	Baylor College of Medicine	AARR, BCS
Dafna Bar-Sagi, PhD	State University of New York at Stony Brook	ONC
Lawrence W. Barsalou	University of Chicago	BBBP
Gregory S. Barsh, MD, PhD	Stanford University	GNS
Stephen J. Bartels, MD	Dartmouth University	BBBP
Daniel S. Barth, PhD	University of Colorado	IFCN
L. Kay Bartholomew, EdD	University of Texas Health Science Center	HOP
James R. Bartles, PhD	Northwestern University	IFCN
Jeffrey S. Bartlett, PhD	Children's Research Institute	BCS
John A. Bartlett, MD	Duke University	AARR
Timothy J. Bartness, PhD	Georgia State University	IFCN
Alfred A. Bartolucci, PhD	University of Alabama School of Public Health	SRB
Bruce A. Barton, PhD	Maryland Medical Research Institute, Inc	MSD
David J. Barton, PhD	University of Colorado Health Sciences Center	IDM
Jennifer K. Barton, PhD	University of Arizona	SRB
Dirk-Uwe G. Bartsch, PhD	University of California, San Diego	BDCN, MDCN
Shirish S. Barve, PhD	University of Louisville	AARR
Carol B. Basbaum, PhD	University of California, San Francisco	PPS
Monica Basco, PhD	University of Texas Southwestern Medical Center at Dallas	RPHB
Rebecca Bascom, MD, PhD	Johns Hopkins University	HOP
Joel B. Baseman, MD, PhD	University of Texas Health Science Center at San Antonio	IDM
Margaret C. Bash, MD	Food and Drug Administration	AARR
Donald E. Bashford, PhD	St. Jude Children's Research Hospital	BPC
Gregory R. Bashford, PhD	Li-Cor, Inc	CDF
Laurence S. Baskin, MD	University of California, San Francisco	MSD
Christopher F. Basler, PhD	Mount Sinai School of Medicine	ENR

Robert C. Basner, MD	Columbia University Health Science Center	SRB
Gary J. Bassell, PhD	Albert Einstein College of Medicine, Yeshiva University	MDCN
Susan S. Bassett, PhD	Johns Hopkins University	HOP
Craig T. Basson, MD, PhD	Weill Medical College of Cornell University	CVS
James A. Bassuk, PhD	Children's Hospital and Regional Medical Center	MSD
Deepak Bastia, PhD	Medical University of South Carolina	ONC
Michael Bastiani, PhD	University of Utah	MDCN
Elena M. Bastida, PhD	University of Texas, Pan American	HOP
Christine Bastl, MD	Temple University Hospital	SRB
Ashis K. Basu, PhD	University of Connecticut, Storrs	ONC
John E. Bates, PhD	Indiana University, Bloomington	BBBB, RPHB
Marsha E. Bates, PhD	Rutgers University	BBBB
Christopher Batich, PhD	University of Florida	MSD, SRB
H. Hunt Batjer, MD	Northwestern University	CVS
Surinder K. Batra, PhD	University of Nebraska Medical Center	CDF
Daniel Batson, PhD	University of Kansas, Lawrence	IFCN
Serafim Batzoglou, PhD	Stanford University	GNS, ONC
John A. Bauer, PhD	Children's Research Institute	HEME
Lance O. Bauer, PhD	University of Connecticut Health Center	BBBB
Patricia J. Bauer, PhD	University of Minnesota, Twin Cities	BBBB
Roger D. Bauer, PhD	California State University, Long Beach	IMM
Jean S. Baum, PhD	Rutgers University	BPC
Marianna K. Baum, PhD	Florida International University	AARR
Michael J. Baum, PhD	Boston University, Charles River Campus	RPHB
Michel G. Baum, MD	University of Texas Southwestern Medical Center at Dallas	MSD
Margaret L. Bauman, MD	Boston University, Medical Campus	BDCN
Richard N. Baumgartner, PhD	University of New Mexico, Albuquerque	HOP
Andreas J. Baumler, PhD	Texas A&M University Health Science Center	IDM
Sina Bavari, PhD	United States Army Medical Research Institute of Infectious Diseases	AARR
Mark G. Baxter, PhD	Harvard University	IFCN
Ute J. Bayen, PhD	University of North Carolina, Chapel Hill	BBBB
Barbara M. Bayer, PhD	Georgetown University	AARR
Christopher J. Bayne, PhD	Oregon State University	IDM
Nicolas G. Bazan, MD	Louisiana State University	BDCN
Alia R. Bazy-Asaad, MD	Yale University	PPS
Steven R. Beach, PhD	University of Georgia	BBBB
Steven L. Bealer, PhD	University of Utah	IFCN
Andrew Beall, PhD	University of California, Santa Barbara	BBBB
Lesa J. Beamer, PhD	University of Missouri, Columbia	IDM
Andrew J. Bean, PhD	University of Texas Health Science Center, Houston	MDCN
Judy A. Bean, PhD	Children's Hospital Medical Center	ONC
John L. Beard, PhD	Pennsylvania State University	ENR
Diana S. Beattie, PhD	West Virginia University	BPC
Kenneth L. Beattie, PhD	Houston Advanced Research Center	GNS
Michael S. Beattie, PhD	Ohio State University	BDCN, MSD
Arthur L. Beaudet, MD	Baylor College of Medicine	GNS
Fred Beauvais, PhD	Colorado State University	HOP, RPHB
Ronald C. Beavis, PhD	Proteometrics Canada Limited	BPC
Bruce F. Bebo, PhD	Oregon Health and Science University	IFCN
Antoine Bechara, MD, PhD	University of Iowa	RPHB
J. Gayle Beck, PhD	State University of New York at Buffalo	BBBB
James M. Beck, MD, PhD	University of Michigan	AARR
Kenneth C. Beck, PhD	Mayo Clinic, Rochester	PPS
Sheryl G. Beck, PhD	Children's Hospital of Philadelphia	IFCN
William T. Beck, PhD	University of Illinois at Chicago	ONC
Donald F. Becker, PhD	University of Nebraska	IDM
Dorothea Becker, PhD	University of Pittsburgh	ONC
Howard C. Becker, PhD	Medical University of South Carolina	IFCN
James T. Becker, PhD	Western Psychiatric Institute and Clinic	BDCN
Jeanne Becker, PhD	University of South Florida	ONC

Jill B. Becker, PhD	University of Michigan at Ann Arbor	IFCN
Susan Becker, PhD	Mcmaster University	IFCN
Mary C. Beckerle, PhD	University of Utah	CDF
Cornelis J. Beckers, PhD	University of Alabama at Birmingham	IDM
Laurel A. Beckett, PhD	University of California, Davis	CVS
Jean C. Beckham, PhD	Duke University Medical Center	BBBP
Joseph S. Beckman, PhD	Oregon State University	ONC
Atul Bedi, MD	Johns Hopkins University	ONC
Edward J. Bedrick, PhD	University of New Mexico	HOP
David J. Beebe, PhD	University of Wisconsin, Madison	BPC
Thomas P. Beebe, PhD	University of Delaware	BPC
Bettina M. Beech, DPH, DRPH	University of Memphis	BBBP, HOP, RPHB
Karen L. Beemon, PhD	Johns Hopkins University	IDM
David O. Beenhouwer, MD	University of California, Los Angeles	IDM
Diane R. Beeson, PhD	California State University	GNS
Melissa D. Begg, PhD, ScD	Columbia University Health Science Center	CVS
Alan H. Beggs, PhD	Children's Hospital, Boston	MSD
Marylou Behnke, MD	University of Florida	BBBP
Timothy W. Behrens, MD, PhD	University of Minnesota, Twin Cities	IMM
Marlene Behrmann, PhD	Carnegie Mellon University	BBBP
Deborah C. Beidel, PhD	University of Maryland	BBBP
Paul J. Beisswenger, MD	Dartmouth College	IDM
Angela M. Belcher, PhD	Massachusetts Institute of Technology	BPC
Marlene Belfort, PhD	Wadsworth Center	BCS
Faye Z. Belgrave, PhD	Virginia Commonwealth University	RPHB
Linda L. Belgrave, PhD	University of Miami, Coral Gables	RPHB
John T. Belisle, PhD	Colorado State University	IDM
John K. Belknap, PhD	Oregon Health and Science University	GNS
Carl C. Bell, MD	Community Mental Health Council, Inc	BBBP
Darwin P. Bell, PhD	University of Alabama	MSD
David C. Bell, PhD	Affiliated Systems Corporation	AARR
Martha A. Bell, PhD	Virginia Polytechnic Institute and State University	BBBP
Ravi V. Bellamkonda, PhD	Georgia Institute of Technology	MSD
David C. Bellinger, PhD	Children's Hospital, Boston	BBBP
Denise L. Bellinger, PhD	Loma Linda University	IFCN
John W. Belmont, MD, PhD	Baylor College of Medicine	GNS
Peter J. Belshaw, PhD	University of Wisconsin	BPC
Judith A. Belt, PhD	University of South Carolina	CVS
Jorge L. Benach, PhD	State University of New York at Stony Brook	IDM
David A. Benaron, MD	Specenteros Corporation	SRB
Jeffrey R. Bender, MD	Yale University	SRB
Robert A. Bender, PhD	University of Michigan at Ann Arbor	BPC, IDM
Timothy P. Bender, PhD	University of Virginia, Charlottesville	CDF
Brad K. Bendiak, PhD	University of Colorado Health Sciences Center	BPC
Craig J. Benham, PhD	University of California, Davis	BPC
Albert S. Benight, PhD	University of Illinois at Chicago	GNS
Emelia J. Benjamin, MD	Boston University	CVS, HOP
Richard J. Benjamin, MB, MD	Brigham and Women's Hospital	CVS, HEME
Paul J. Benkeser, PhD	Georgia Institute of Technology	SRB
Steven A. Benner, PhD	Hypercube	BPC
Beth Bennett, PhD	University of Colorado	BDCN
David A. Bennett, MD	Rush-Presbyterian-St. Luke's Medical Center	BDCN
Gary J. Bennett, PhD	McGill University	IFCN
Jean Bennett, MD, PhD	University of Pennsylvania	BCS, CDF
Michael J. Bennett, MD, PhD	University of Texas Southwestern Medical Center at Dallas	GNS
Paul Benni, PhD	CAS Medical Systems, Inc	BDCN
Tracy Benning, PhD	University of San Francisco	IDM
Michael Bennish, MD	New England Medical Center Hospitals	CDF
Dale J. Benos, PhD	University of Alabama at Birmingham	MSD
Jeffrey L. Benovic, PhD	Thomas Jefferson University	CVS

Halima Bensmail, PhD	University of Tennessee	BPC
David R. Benson, PhD	University of Kansas	BPC
Deanna L. Benson, PhD	Mount Sinai School of Medicine	MDCN
Merrill D. Benson, MD, PhD	Indiana University	IMM
Alan Bensoussan, PhD	University of Western Sydney	PPS
Kweku K. Bentil, PhD	Indiana State University	HOP
Etty (Tika) N. Benveniste, PhD	University of Alabama at Birmingham	BDCN
Helen E. Benveniste, MD, PhD	Brookhaven National Laboratory	MDCN, SRB
David A. Berd, MD	Thomas Jefferson University	ONC
Kathleen H. Berecek, PhD	University of Alabama at Birmingham	CVS
David A. Bereiter, PhD	Rhode Island Hospital (Providence, RI)	IFCN
Sheri A. Berenbaum, PhD	Pennsylvania State University	RPHB
Iris Berent, PhD	Florida Atlantic University	BBBP
Thomas P. Beresford, MD	University of Colorado	RPHB
Anne T. Berg, PhD	Northern Illinois University	HOP
Carl L. Berg, MD	University of Virginia Health System	PPS
Cynthia A. Berg, PhD	University of Utah	BBBP
George Berg, PhD	State University of New York	BPC
Howard C. Berg, PhD	Harvard University	IDM
Cindy S. Bergeman, PhD	University of Notre Dame	HOP
Charles L. Berger, MD	Oracle Corporation	BPC
Theodore W. Berger, PhD	University of Southern California	MDCN
Susan E. Bergeson, PhD	Oregon Health and Science University	IFCN
Dwight E. Bergles, PhD	Johns Hopkins University	MDCN
Jack Bergman, PhD	McLean Hospital (Belmont, MA)	IFCN
Donald E. Bergstrom, PhD	Purdue University	BPC
Hans J. Berkel, MD, PhD	Wright State University	HOP
Bruce A. Berkowitz, PhD	Wayne State University	CDF
Gertrud S. Berkowitz, PhD	Mount Sinai School of Medicine	HOP
Robert I. Berkowitz, MD	University of Pennsylvania	RPHB
Lawrence J. Berliner, PhD	University of Denver	BPC
Jennifer R. Berman, MD	University of California, Los Angeles	MSD
Mitchell E. Berman, PhD	University of Southern Mississippi	RPHB
Luiz E. Bermudez, MD	Oregon State University	AARR
Ralph J. Bernacki, PhD	Roswell Park Cancer Institute	BCS, ONC
Kristen A. Bernard, DVM, PhD	New York State Department of Health	AARR
Thomas E. Bernard, PhD	University of South Florida	HOP
Linda A. Bernhard, PhD	Ohio State University	HOP
David A. Bernlohr, PhD	University of Minnesota	BCS, NMS
Gary G. Berntson, PhD	Ohio State University	RPHB
Lisa M. Berreau, PhD	Utah State University	BPC
Albert S. Berrebi, PhD	West Virginia University	IFCN, MDCN
Wade H. Berrettini, MD, PhD	University of Pennsylvania School of Medicine	BDCN, GNS
Craig W. Berridge, PhD	University of Wisconsin	IFCN
Kent C. Berridge, PhD	University of Michigan	BBBP, IFCN
Charles C. Berry, PhD	University of California, San Diego	ONC
Donald A. Berry, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Bennett I. Bertenthal, PhD	University of Virginia, Charlottesville	BBBP
Gina E. Bertocci, PhD	University of Pittsburgh	MSD
Nora J. Besansky, PhD	University of Notre Dame	IDM
William E. Beschoner, MD	Ximerex, Inc	IMM
Albert H. Beth, PhD	Vanderbilt University	BPC, MDCN
John R. Bethea, PhD	University of Miami School of Medicine	BDCN
B. Ann Bettencourt, PhD	University of Missouri, Columbia	RPHB
Denise D. Beusen,	Metaphore Pharmaceuticals, Inc	BPC
Ernest Beutler, MD, PhD	Scripps Research Institute	GNS
David R. Bevan, MD, PhD	Virginia Polytechnic Institute and State University	BPC
Joseph L. Beverly, PhD	University of Illinois	IFCN
Philip C. Bevilacqua, PhD	Pennsylvania State University, University Park	BCS
Richard A. Bevins, PhD	Oregon Health and Science University	BBBP

Ann L. Beyer, PhD	University of Virginia Health System	CDF
Eric C. Beyer, MD, PhD	University of Chicago	MDCN
Francisco J. Bezanilla, PhD	University of California, Los Angeles	MDCN
Ashok S. Bhagwat, PhD	Wayne State University	BPC
Avinash Bhandoola, MB, MD	University of Pennsylvania School of Medicine	IMM
Anish Bhardwaj, MD	Johns Hopkins University	BDCN
Shalender Bhasin, MD	Charles Drew University of Medicine	AARR, MSD
Rama Bhat, MD	University of Illinois	SRB
Pradeep G. Bhide, PhD	Massachusetts General Hospital	BDCN
Italo Biaggioni, MD	Vanderbilt University	CVS, PPS
John E. Biaglow, PhD	University of Pennsylvania School of Medicine	ONC
Lynne M. Bianchi, PhD	Oberlin College	IFCN
Keith C. Bible, MD, PhD	Mayo Clinic, Rochester	ONC
Jackie R. Bickenbach, PhD	University of Iowa	MSD
David R. Bickers, MD	Columbia University College of Physicians and Surgeons	MSD
Irving J. Bigio, PhD	Boston University, Charles River Campus	SRB
Erin D. Bigler, PhD	Brigham Young University	BDCN
Darell D. Bigner, MD, PhD	Duke University	BDCN, ONC
Marty Bigos, PhD	Gladstone Institute of Virology and Immunology	CVS, HEME
Daniel D. Bikle, MD, PhD	Northern California Institute For Research and Education	MSD
Robert M. Bilder, PhD	North Shore-Long Island Jewish Research Institute	BDCN
John A. Bilello, PhD	Virco Lab, Inc	BCS
Timothy R. Billiar, MD, PhD	University of Pittsburgh	SRB
Diane Billings, EdD	Indiana University	RPHB
Charles J. Billington, MD	Veterans Affairs Medical Center	IFCN
Stuart A. Binder-Macleod, PhD	University of Delaware	MSD
David G. Birch, PhD	Retina Foundation of The Southwest	BDCN
Raymond B. Birge, PhD	University of Medicine and Dentistry of New Jersey	BDCN
Robert R. Birge, PhD	University of Connecticut	BPC
David E. Birk, PhD	Thomas Jefferson University	CDF
Ronald L. Birke, PhD	City College of New York	BPC
Bruce W. Birren, PhD	Whitehead Institute Center For Genome Research	GNS
David M. Bishai, MD, PhD	Johns Hopkins University	HOP
William R. Bishai, MD, PhD	Johns Hopkins University	AARR, IDM
D. Keith Bishop, PhD	University of Michigan School of Medicine	SRB
Montgomery D. Bissell, MD	University of California	PPS
John J. Bissler, MD	Children's Hospital Medical Center, Cincinnati	MSD
Bharat B. Biswal, PhD	University of Medicine and Dentistry of New Jersey School of Osteopathic Medicine	BDCN
John L. Bixby, PhD	University of Miami	MDCN
Edward O. Bixler, PhD	Pennsylvania State University Hershey Medical Center	HOP
Oscar A. Bizzozero, PhD	University of New Mexico	BDCN
Lars Bjorklund, MD, PhD	McLean Hospital/Harvard Medical School	BDCN
Mary-Ann Bjornsti, PhD	Gordon Research Conferences	ONC
Lars M. Bjursten, MD, PhD	La Jolla Bioengineering Institute	MSD
Donald W. Black, MD	University of Iowa College of Medicine	BBBP
James E. Black, MD, PhD	College of Medicine at Urbana-Champaign	HOP
Maureen M. Black, PhD	University of Maryland	RPHB
Stephen M. Black, PhD	University of Montana	ENR
Deborah L. Blacker, DSc, MD	Massachusetts General Hospital	GNS
Marcia A. Blackman, PhD	Trudeau Institute, Inc	PPS
John A. Blaho, MD, PhD	Mount Sinai School of Medicine	IDM
Donald D. Blake, PhD	Binghamton University	IMM
Judith A. Blake, PhD	Jackson Laboratory	MDCN
Randy D. Blakely, MD, PhD	Vanderbilt University	CVS
Christina G. Blanchard, PhD	Albany Medical Center	RPHB
Edward B. Blanchard, PhD	State University of New York at Albany	RPHB
Jack J. Blanchard, PhD	University of Maryland, College Park	BBBP
John S. Blanchard, PhD	Yeshiva University	BPC
Fredda H. Blanchard-Fields, PhD	Georgia Institute of Technology	RPHB

William S. Blaner, PhD	Columbia University Health Science Center	ONC
Steven R. Blanke, PhD	University of Houston	IDM
Michael P. Blanton, PhD	Texas Tech University Health Sciences Center	IFCN, IMM
Martin J. Blaser, MD	New York Medical College	IDM
Ernest (Chip) Blatchley, PhD	Purdue University	IDM
William A. Blattner, MD	University of Maryland	AARR
Andrew L. Blatz, PhD	Axon Instruments, Inc	MDCN
David M. Blau, PhD	University of North Carolina	HOP
Andrew R. Blaustein, PhD	Oregon State University	CDF
Bruce R. Blazar, MD	University of Minnesota	ONC
Mary A. Blegen, PhD	University of Colorado Health Sciences Center	HOP
Carl P. Blobel, MD, PhD	Sloan-Kettering Institute For Cancer Research	BDCN
Michael S. Block, DMD	Louisiana State University Health Sciences Center, New Orleans	MSD
Timothy M. Block, PhD	Thomas Jefferson University	IDM, PPS
Roy Drake Bloebaum, PhD	University of Utah	MSD
George E. Blomgren, PhD	Blomgren Consulting Services Ltd.	SRB
David C. Bloom, PhD	University of Florida College of Medicine	IDM
George S. Bloom, MD, PhD	University of Virginia, Charlottesville	MDCN
Joan R. Bloom, PhD	University of California, Berkeley	HOP
Kerry S. Bloom, PhD	University of North Carolina	CDF
Stewart A. Bloomfield, PhD	New York University School of Medicine	CDF
Colin M. Bloor, MD	University of California, San Diego	CVS
Daniel Bluestein, PhD	State University of New York at Stony Brook	SRB
Terry C. Blum, PhD	Georgia Institute of Technology	HOP
Richard S. Blumberg, MD	Brigham and Women's Hospital	PPS
Robert M. Blumenthal, PhD	Medical College of Ohio at Toledo	IDM
Terry D. Blumenthal, PhD	Wake Forest University	RPHB
Thomas Blumenthal, PhD	University of Colorado Health Sciences Center	CDF
Kendall J. Blumer, PhD	Gordon Research Conferences	BPC
Ricky N. Bluthenthal, PhD	Rand Corporation	HOP
Richard P. Bobbin, PhD	Louisiana State University Health Sciences Center, New Orleans	IFCN
Donald R. Bobbitt, PhD	University of Arkansas	SRB
Miroslav V. Bobek, PhD	Roswell Park Cancer Institute	ONC
Eric W. Boberg, PhD	Northwestern University Medical School	RPHB
David F. Bocian, PhD	University of California	BPC
Beth C. Bock, PhD	Miriam Hospital	RPHB
Kathryn Bock, PhD	University of Illinois	BBBP
Paul E. Bock, PhD	Vanderbilt University	HEME
Leslie I. Boden, PhD	Boston University	HOP
Richard J. Bodnar, PhD	Queen's College of University of New York	IFCN
Barbara A. Body, PhD	Laboratory Corporation of America	IDM
Michael L. Boehnke, PhD	University of Michigan at Ann Arbor	MSD
Kim Boekelheide, MD, PhD	Brown University	ENR
Laura M. Bogart, PhD	Kent State University	RPHB
Alexei A. Bogdanov, PhD	Massachusetts General Hospital	ONC
Alexei A. Bogdanov, Jr., PhD	Massachusetts General Hospital	GNS
Daniel F. Bogenhagen, MD	State University of New York at Stony Brook	GNS
Oliver Bogler, PhD	Henry Ford Health System	BDCN, MDCN, ONC
Harold Glenn Bohlen, PhD	Indiana University	CVS
Richard Boismenu, PhD	Repligen Corporation	IMM
Kathleen M. Boje, PhD	State University of New York	BDCN
Clement R. Boland, MD	Baylor Research Institute	SRB
Julie E. Boland, PhD	University of Michigan at Ann Arbor	BBBP
Robert Boland, MD	Miriam Hospital	RPHB
David H. Boldt, MD, PhD	University of Texas Health Science Center	CVS
William E. Bolger, MD	Uniformed Services University of Health Sciences	SRB
Jeffrey T. Bolin, PhD	Purdue University, West Lafayette	BPC
Lizann Bolinger, MD, PhD	Institute For Biodiagnostics	SRB
Karen I. Bolla, PhD	Johns Hopkins University, Bayview Medical Center	BBBP, HOP
Robert D. Bolskar, PhD	Tda Research, Inc	SRB

Judy L. Bolton, PhD	University of Illinois at Chicago	ONC
Karol Bomsztyk, MD	University of Washington	ENR
Jeffrey F. Bonadio, MD	University of Washington	MSD
Lawrence J. Bonassar, PhD	Cornell University, Ithaca	MSD
Judith S. Bond, PhD	Pennsylvania State University College of Medicine	NMS
Meredith Bond, PhD	University of Maryland Baltimore Professional School	CVS
Ann C. Bonham, PhD	University of California, Davis	PPS
George E. Bonney, PhD	Howard University College of Medicine	MDCN
Robert W. Bonsall, PhD	Emory University	BBBP
Joseph V. Bonventre, MD, PhD	Brigham and Women's Hospital	CVS
Richard J. Bookman, PhD	University of Miami	MDCN
W. Henry Boom, MD, PhD	Case Western Reserve University	IDM
John M. Boone, PhD	University of California, Davis Medical Center	SRB
Frank W. Booth, PhD	University of Missouri, Columbia	MSD
David A. Boothman, PhD	Case Western Reserve University	ONC
John C. Boothroyd, PhD	Stanford University	IDM
Richard R. Bootzin, PhD	University of Arizona	BDCN
Rosemarie M. Booze, PhD	University of South Carolina at Columbia	BDCN
Elaine Borawski, PhD	Case Western Reserve University	AARR
Richard F. Borch, MD, PhD	Purdue University, West Lafayette	ONC
Ronald T. Borchardt, PhD	University of Kansas	CVS
David R. Borchelt, PhD	Johns Hopkins University	MDCN
Ernest C. Borden, MD	Cleveland Clinic Foundation	BPC
Julian Borejdo, PhD	University of North Texas	CDF
Philip N. Borer, PhD	Syracuse University	IDM, GNS
Thomas K. Borg, PhD	University of South Carolina	CVS
Aladin M. Boriek, PhD	Baylor College of Medicine	MSD
Darryl J. Bornhop, PhD	Texas Tech University	SRB
Teresa Borrás, PhD	University of North Carolina, Chapel Hill	BDCN
Belinda Borrelli, PhD	Miriam Hospital	RPHB
Zeljko J. Bosnjak, PhD	Medical College of Wisconsin	SRB
Kenneth L. Bost, PhD	University of North Carolina, Chapel Hill	BDCN
Daniel Boston, DMD	Temple University	MSD
Mathias P.G. Bostrom, MD	Hospital For Special Surgery	MSD
Mark A. Bothwell, PhD	University of Washington	BDCN
Jeffrey R. Botkin, MD	University of Utah	GNS
Kenneth F. Bott, PhD	University of North Carolina, Chapel Hill	IDM
Andrea Bottaro, PhD	University of Rochester Medical Center	IMM
Erwin P. Bottinger, MD	Albert Einstein College of Medicine, Yeshiva University	MSD
Paul A. Bottomley, PhD	Johns Hopkins University	SRB
Joann A. Boughman, PhD	American Society of Human Genetics	GNS
Andrew J. Boulton, MD	Victoria University of Manchester	BDCN
Brett E. Bouma, PhD	Massachusetts General Hospital	SRB
Nigel Bourne, PhD	University of Texas Medical Branch	IMM
Don P. Bourque, PhD	University of Arizona	BCS
Robert B. Bourret, PhD	University of North Carolina, Chapel Hill	IDM
Bernard E. Bouscarel, DSc, PhD	George Washington University	PPS
Mark E. Bouton, PhD	University of Vermont and State Agricultural College	BBBP
Nash Boutros, MD	Yale University	BDCN
Kenneth G. Boutte, PhD	Xavier University of Louisiana	IMM
Michael Bouvet, MD	University of California, San Diego	SRB
H. G. Bouwer, PhD	Providence Portland Medical Center	AARR
Mary L. Bouxsein, PhD	Beth Israel Deaconess Medical Center	MSD
Dana H. Bovbjerg, PhD	Mount Sinai School of Medicine	RPHB
Geoffrey M. Bove, DC, PhD	Beth Israel Deaconess Medical Center	MSD
Anne M. Bowcock, PhD	Washington University School of Medicine	MSD
Douglas M. Bowden, MD	University of Washington	MDCN
George T. Bowden, PhD	University of Arizona College of Medicine	ONC
Anne M. Bowen, PhD	University of Wyoming	AARR
Deborah J. Bowen, PhD	Fred Hutchinson Cancer Research Center	GNS, RPHB

Kit H. Bowen, PhD	Johns Hopkins University	BPC
Bruce A. Bowerman, PhD	University of Oregon	CDF
Watson A. Bowes, MD	University of North Carolina, Asheville	HOP
Doug Bowles, PhD	University of Missouri	MSD
Barry J. Bowman, PhD	University of California, Santa Cruz	GNS
Howard Bowman, PhD	Avanti Polar Lipids, Inc	BPC
Robert P. Bowser, PhD	University of Pittsburgh	BDCN
Barbara D. Boyan, PhD	Orthonics, Inc	MSD
Brendan F. Boyce, MD	University of Rochester Medical Center	AARR
Steven T. Boyce, PhD	Cutanogen Corporation	MSD
Jeff A. Boyd, PhD	Sloan-Kettering Institute For Cancer Research	ONC
Neal R. Boyd, EdD, PhD	George Washington University	HOP
Penelope A. Boyden, PhD	Columbia University College of Physicians and Surgeons	CVS
Thomas D. Boyer, MD	University of Arizona	PPS
John A. Brabyn, PhD	Smith-Kettlewell Eye Research Institute	IFCN
Laurence A. Bradley, PhD	University of Alabama at Birmingham	MSD
Leonard A. Bradshaw, PhD	Vanderbilt University	SRB
Scott T. Brady, PhD	University of Illinois at Chicago	MDCN
David H. Brainard, PhD	University of Pennsylvania	IFCN
Andrea D. Branch, PhD	Mount Sinai School of Medicine	PPS
Craig A. Branch, PhD	Nathan S. Kline Institute For Psychiatric Research	SRB
Marc N. Branch, PhD	University of Florida	BBBP
Bruce P. Branchaud, PhD	University of Oregon	ONC
Phillip E. Brandish, PhD	Merck and Company, Inc	BPC
Thomas H. BrandDon, PhD	H. Lee Moffitt Cancer Center and Research Institute	RPHB
Curtis R. Brandt, PhD	University of Wisconsin, Madison	BDCN
Michael E. Brandt, PhD	University of Texas Health Science Center	BBBP
Darrell W. Brann, PhD	Medical College of Georgia School of Medicine	IFCN
Lisa Brannon-Peppas, PhD	University of Texas at Austin	MSD
Richard D. Branson	University of Cincinnati	SRB
Mark L. Brantly, MD	University of Florida College of Medicine	PPS
Dawn L. Brasaemle, PhD	Rutgers University	ENR
Michael G. Brattain, PhD	Roswell Park Cancer Institute	ONC
David L. Brautigam, PhD	University of Virginia School of Medicine	CDF
Brent Braveman, PhD	University of Illinois at Chicago	RPHB
Paula A. Braveman, MD	University of California, San Francisco	HOP
Sanford L. Braver, PhD	Arizona State University	HOP
Todd S. Braver, PhD	Washington University	BBBP
David Michael Brawn, PhD	Wayne State University	RPHB
Elizabeth J. Bray, MD, PhD	University of California	CDF
Molly M. Bray, PhD	University of Texas Health Science Center, Houston	HOP
Gayle A. Brazeau, PhD	State University of New York at Buffalo	BPC, CVS
Nicholas C. Brecha, PhD	University of California, Los Angeles	CDF
David S. Bredt, MD, PhD	University of California, San Francisco	MDCN
Linda L. Breeden, PhD	Fred Hutchinson Cancer Research Center	CDF
Larry C. Breeding, DMD	University of Mississippi Medical Center	MSD
Stephen Marc Breedlove, PhD	Michigan State University	IFCN
William Breitbart, MD	Sloan-Kettering Institute For Cancer Research	RPHB
Kara L. Bren, PhD	University of Rochester	BCS
Curt Breneman, PhD	Rensselaer Polytechnic Institute	MDCN
J. Thomas Brenna, PhD	Cornell University, Ithaca	BPC
Anthony B. Brennan, PhD	University of Florida	SRB
Michael J. Brennan, MD, PhD	Detroit Institute of Cancer Research	AARR
Patrick J. Brennan, PhD	Colorado State University	IDM
Richard G. Brennan, PhD	Oregon Health and Science University	IDM
Richard J. Brennan, PhD	OSI Pharmaceuticals, Inc	CDF
David A. Brenner, MD, PhD	Columbia University Health Science Center	PPS
Dean E. Brenner, MD	University of Michigan at Ann Arbor	ONC
Matt Brenner, MD	University of California, Irvine	SRB
Michael Brenner, PhD	University of Alabama at Birmingham	BDCN

Eliot A. Brenowitz, PhD	University of Washington	IFCN
Michael D. Brenowitz, PhD	Yeshiva University	BPC
David A. Brent, MD	Western Psychiatric Institute and Clinic	GNS
Diane Brentari, PhD	Purdue University	BBBP
F. Curtis Breslin, PhD	Institute For Work and Health	RPHB
Emery H. Bresnick, PhD	University of Wisconsin, Madison	IMM
Steven L. Bressler, PhD	Florida Atlantic University	MDCN
Anthony P. Bretscher, PhD	Cornell University, Ithaca	CDF
Keith Brew, PhD	Florida Atlantic University	BPC
Matthew D. Breyer, MD	Vanderbilt University	MSD
Patrick N. Breysse, PhD	Johns Hopkins University	HOP
Mark E. Brezinski, MD, PhD	Brigham and Women's Hospital	SRB
Eileen K. Bridge, PhD	Miami University	GNS
Paul C. Bridgman, PhD	Washington University School of Medicine	MDCN
David Brienza, PhD	University of Pittsburgh	MSD
Stephen Brier, PhD	City University of New York	RPHB
Richard W. Briggs, PhD	University of Florida	BBBP
Janet Brigham Rands, PhD	SRI International	SRB
Frank V. Bright, PhD	University of Buffalo	IDM
Robert K. Bright, PhD	Texas Tech University Health Sciences Center	IMM
David E. Briles, MD, PhD	University of Alabama at Birmingham	IDM
Murray H. Brilliant, PhD	University of Arizona College of Medicine	MSD
David N. Brindley, DSc	University of Alberta	CVS
Susan G. Brink, DPH	Healthmark Multimedia, LLC	AARR
Bill R. Brinkley, PhD	Baylor College of Medicine	CDF
James F. Brinkley, MD, PhD	University of Washington School of Medicine	MDCN
Margo A. Brinton, PhD	Georgia State University	IDM
James R. Broach, PhD	Princeton University	CDF, GNS
Christopher C. Broder, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	IDM
Joseph P. Broderick, MD	University of Cincinnati	HOP
Bernard Brodeur, PhD	Laval University Medical Center	AARR
Angela M. Brodie, PhD	University of Maryland	ENR, NMS
Barbara M. Brodsky, PhD	European Molecular Biology Laboratory	MSD
Robert A. Brodsky, MD	Johns Hopkins University	IMM
Paul E. Brodwin	University of Wisconsin, Milwaukee	GNS
Arthur L. Brody, MD	Brentwood Biomedical Research Institute	BDCN
Jerome S. Brody, MD	Boston University	HOP
Steven L. Brody, MD	Washington University School of Medicine	PPS
Jonathan S. Bromberg, MD, PhD	Mount Sinai School of Medicine	IMM
Joyce T. Bromberger, PhD	Western Psychiatric Institute and Clinic	BBBP
Judith S. Brook, Edd	New York University School of Medicine	RPHB
Joan E. Brooks, PhD	Garbrook Associates	IDM
Kathryn H. Brooks, PhD	Michigan State University	IMM
Maria Mori Brooks, PhD	University of Pittsburgh	CVS
Samuel C. Brooks, PhD	Wayne State University	ENR
Susan V. Brooks, PhD	University of Michigan at Ann Arbor	MSD
Amy R. Brooks-Kayal, MD	Children's Hospital of Philadelphia	BDCN
Arthur D. Broom, PhD	University of Utah	AARR
Marion E. Broome, PhD	University of Alabama at Birmingham	HOP
James R. Brorson, MD	University of Chicago	BDCN
Laurent Brossay, PhD	Brown University	IMM
Kim L. Brouwer, PhD	University of North Carolina, Chapel Hill	CVS
Pim Y. Brouwers, PhD	Baylor College of Medicine	BBBP
Anthony Brown, PhD	Ohio State University	MDCN
Candace S. Brown	University of Tennessee	HOP
Dennis T. Brown, PhD	North Carolina State University	IDM
Jeanette S. Brown, MD	University of California, San Francisco	MSD
Lou Ann S. Brown, PhD	Emory University	PPS
M. Brown, PhD	Massachusetts Eye and Ear Infirmary	IFCN
Michael D. Brown, PhD	University of Maryland	BBBP

Michael G. Brown, PhD	University of Virginia School of Medicine	IMM
Nancy J. Brown, MD	Vanderbilt University	CVS
Richard A. Brown, PhD	Butler Hospital, Providence, RI	BBBP
Ronald T. Brown, PhD	Emory University	RPHB
Terry R. Brown, PhD	Johns Hopkins University	ENR
Thomas D. Brown, PhD	University of Iowa	MSD
Truman R. Brown, MD, PhD	Columbia University	SRB
William E. Brownell, PhD	Baylor College of Medicine	MDCN
Michael D. Browning, PhD	University of Colorado Health Sciences Center	IFCN
Philip J. Browning, MD	Vanderbilt University	AARR
Michael A. Brownlee, MD	Albert Einstein College of Medicine, Yeshiva University	NMS
Hal E. Broxmeyer, MD, PhD	Indiana University-Purdue University, Indianapolis	CDF, CVS
Steven S. Broyles, PhD	Purdue University	IDM
Patricia L. Brubaker, PhD	University of Toronto	NMS
Maggie Bruck, PhD	Johns Hopkins University	BBBP
Cindy J. Bruckner-Lea, PhD	United States Department of Energy	BPC
Gerard E. Bruder, PhD	New York State Psychiatric Institute	BDCN
Joseph T. Bruder, PhD	Genvec, Inc	BCS
Gary W. Brudvig, PhD	Yale University	BPC
Robert W. Brueggemeier, PhD	Gordon Research Conferences	ENR, ONC
Marijn Brummer, PhD	Emory University	SRB
Kay M. Brummond, PhD	University of Pittsburgh	BPC
Daniela Brunner, PhD	Psychogenics, Inc	BDCN
John B. Brunski, PhD	Rensselaer Polytechnic Institute	MSD
Randy R. Brutkiewicz, PhD	Indiana University School of Medicine	PPS
Angela D. Bryan, PhD	University of Colorado at Boulder	AARR
Phillip Bryan, PhD	University of Maryland	BCS
Barbara Bryant, PhD	Millennium Pharmaceuticals Inc	GNS
Peter J. Bryant, PhD	University of California, Irvine	MDCN
Stephen H. Bryant, PhD	National Library of Medicine	GNS
Elizabeth C. Bryda, PhD	Marshall University	GNS
James D. Bryers, PhD	University of Connecticut Health Center	MSD
Richard J. Bucala, MD, PhD	Yale University	MSD
Roy M. Buchan, DRPH, PhD	Colorado State University	PPS
Michelle V. Buchanan, PhD	Oak Ridge National Laboratory	IDM
Arthur M. Buchberg, PhD	Thomas Jefferson University	GNS
Donald J. Buchsbaum, PhD	University of Alabama School of Medicine	ONC
Monte S. Buchsbaum, MD	Mount Sinai School of Medicine	BDCN
Linda B. Buck, PhD	Fred Hutchinson Cancer Research Center	IFCN
Peter F. Buckley, MB, MD	Medical College of Georgia	BBBP
Randy L. Buckner, PhD	Washington University	IFCN
J. Galen Buckwalter, PhD	Kaiser Foundation Research Institute	BBBP
R. Pat Bucy, MD, PhD	University of Alabama at Birmingham	SRB
Frank L. Buczek, PhD	Santa Rosa Health Care Corporation	MSD
Ralph C. Budd, MD	University of Vermont	IMM
Gila Budescu, DSc, PhD	University of Illinois	BPC
Thomas F. Budinger, MD, PhD	University of California, Berkeley	SRB
Pierre Buekens, MD, PhD	Tulane University	CDF
Donald G. Buerk, PhD	University of Pennsylvania	MDCN, SRB
Garry R. Buettner, PhD	University of Iowa	BPC
C. A. Buffington, DVM, PhD	University of California, Los Angeles	MSD
William Buford, PhD	University of Texas Medical Branch at Galveston	MSD
Daphne B. Bugental, PhD	University of California, Santa Barbara	RPHB
Jeremy Buhler, PhD	Data Search Systems, Inc	GNS
Philippe Buhlmann, PhD	University of Minnesota	BPC
Michael I. Bukrinsky, MD, PhD	George Washington University	AARR
Cynthia M. Bulik, PhD	University of North Carolina, Chapel Hill	BBBP
Daniel C. Bullard, PhD	University of Alabama at Birmingham	IMM, MSD
David B. Buller, PhD	Cooper Institute	HOP
Elizabeth Bullitt, MD	University of North Carolina	SRB

Carol J. Bult, PhD	Jackson Laboratory	GNS
Kirk J. Bundy, PhD	Tulane University	MSD
Bruce A. Bunnell, PhD	Tulane University	BPC
Timothy H. Bunnell, PhD	Dupont Hospital For Children	BBBP
Kevin D. Bunting, PhD	American National Red Cross	HEME
John K. Buolamwini, PhD	University of Tennessee Health Science Center	ONC
Russell J. Buono, PhD	University of Pennsylvania	BDCN
John B. Burch, PhD	Institute For Cancer Research	BCS
Grigore C. Burdea, PhD	Rutgers University	BBBP, RPHB
Everette C. Burdette, PhD	Computerized Medical Systems, Inc	SRB
Matthew M. Burg, PhD	Yale University	RPHB
Scott Burg	Inoveon	IDM, RPHB
Peter M. Burgers, PhD	Washington University	BCS
James E. Burgess, MD	Fairfax Hospital	SRB
Kevin Burgess, PhD	Texas A&M University	BPC
Kim Beverly Burgess, PhD	University of Maryland, College Park	RPHB
Shane C. Burgess, PhD	Mississippi State University	IMM
Shawn M. Burgess, PhD	National Human Genome Research Institute	CDF
Thomas P. Burghardt, PhD	Mayo Clinic, Rochester	ONC
Arthur H. Burghes, PhD	Ohio State University	IFCN, MDCN
Claude F. Burgoyne, MD	Louisiana State University Health Sciences Center, New Orleans	MDCN
William C. Burhans, PhD	Roswell Park Cancer Institute	GNS
Julie E. Buring, DPH, DSc	Brigham and Women's Hospital	HOP
Robert F. Burkard, PhD	State University of New York at Buffalo	IFCN
David T. Burke, PhD	University of Michigan	GNS
Deborah M. Burke, PhD	Pomona College	BBBP
Donald H. Burke, PhD	Indiana University, Bloomington	AARR
Donald S. Burke, MD	Johns Hopkins University	AARR
Harry B. Burke, MD, PhD	George Washington University	ENR
Janice M. Burke, PhD	Medical College of Wisconsin	CDF
John M. Burke, PhD	University of Vermont	BCS, BPC
Peter J. Burke, PhD	Indiana University	RPHB
Rae Lyn Burke, PhD	SRI International	AARR
Robert E. Burke, MD, PhD	Columbia University Health Science Center	BDCN
Richard Burkhauser, PhD	Cornell University, Ithaca	HOP
Nancy T. Burley, PhD	University of California, Irvine	BBBP
Alma L. Burlingame, PhD	University of California, San Francisco	BPC
Margit M. Burmeister, PhD	University of Michigan at Ann Arbor	BPC
Robert L. Burnap, PhD	Oklahoma State University	IDM
John C. Burnett, MD	Mayo Clinic, Rochester	CVS
Nancy Burnham, PhD	Worcester Polytechnic Institute	BPC
Alan R. Burns, PhD	Sandia National Laboratories	SRB
David M. Burns, MD	University of California, San Diego	SRB
Gregory L. Burns, DVM, PhD	Thrombodyne, Inc	SRB
James B. Burns, MD	University of Utah	BDCN
James M. Burns, PhD	Drexel University	AARR
Jane C. Burns, MD	University of California, San Diego	CVS
Jane L. Burns, MD	Children's Hospital and Regional Medical Center	IDM
Mark A. Burns, PhD	University of Michigan	GNS
Stephen A. Burns, PhD	Schepens Eye Research Institute	CDF
Trudy L. Burns, PhD	University of Iowa	CVS, HOP
Elizabeth Burnside, MD	University of Wisconsin, Madison	SRB
Keith W. Burrige, PhD	University of North Carolina	BCS
Cynthia J. Burrows, PhD	University of Utah	ONC
Peter D. Burrows, PhD	University of Alabama at Birmingham	IMM
Gregory F. Burton, PhD	Brigham Young University	AARR
Rebecca D. Burwell, PhD	Brown University	IFCN
Theresa M. Busch, PhD	University of Pennsylvania	ONC
Jorge A. Busciglio, PhD	University of California, Irvine	BDCN
C. Allen Bush, PhD	University of Maryland, Baltimore County	BPC, CDF

Karen Bush, PhD	Johnson & Johnson Pharmaceutical Research	IDM
Robin M. Bush, PhD	University of California, Irvine	AARR
David A. Bushinsky, MD	University of Rochester	MSD
Frederic D. Bushman, PhD	University of Pennsylvania	AARR
Wade A. Bushman, MD, PhD	University of Wisconsin, Madison	MSD
Kristin A. Buss, PhD	University of Missouri, Columbia	BBBP
Lawrence J. Busse, PhD	LJB Development, Inc	SRB
Michael Bustin, PhD	National Cancer Institute	CDF
James P. Butler, PhD	Brigham and Women's Hospital	MDCN
Peter C. Butler, MD	University of Southern California	NMS
Ronald A. Butow, PhD	University of Texas Southwestern Medical Center at Dallas	GNS
Tauseef R. Butt, PhD	Lifesensors, Inc	IDM
Peter M. Buttrick, MD	University of Illinois at Chicago	CVS
Ralph E. Buttyan, PhD	Columbia University	ENR, MSD
Arlene M. Butz, ScD	Johns Hopkins University	HOP
Joseph D. Buxbaum, MD, PhD	Mount Sinai School of Medicine	BDCN, MDCN
Richard B. Buxton, PhD	University of California, San Diego	SRB
Jill P. Buyon, MD	Hospital For Joint Diseases Orthopedic Institute	IMM
Barry J. Byrne, MD, PhD	University of Florida	MSD
Gerald I. Byrne, PhD	University of Tennessee Health Science Center	IDM
Jean-Claude Bystryin, MD	New York University Medical Center	AARR, ONC
David J. Bzik, PhD	Dartmouth College	IDM
Felipe C. Cabello, MD	New York Medical College	AARR
Rafael D. Cabeza, PhD	University of Texas at El Paso	IMM
Roberto E. L. Cabeza, PhD	Duke University	BBBP
Guy A. Cabral, PhD	Virginia Commonwealth University	AARR
John T. Cacioppo, PhD	University of Chicago	IFCN
Enrique Cadenas, MD, PhD	University of Southern California	MSD
Kristin Cadenhead, MD	University of California, San Diego	BBBP
David S. Cafiso, PhD	University of Virginia	BPC
Ross L. Cagan, PhD	Washington University	CDF
Kathleen Cagney, PhD	University of Chicago	HOP
Gregory M. Cahill, PhD	University of Houston	CDF
Charles A. Cain, MD, PhD	University of Michigan	ONC, SRB
Vincent J. Caiozzo, PhD	University of California	MSD
Nicholas Cairns, PhD	Combinix, Inc	BPC
Nigel A. Calcutt, PhD	University of California, San Diego	BDCN
Richard A. Calderone, PhD	Georgetown University	IDM
Stuart Keith Calderwood, PhD	Dana-Farber Cancer Institute	ONC
Michael A. Caligiuri, MD, PhD	Ohio State University	IMM
Catherine E. Calkins, PhD	Thomas Jefferson University	IMM
Susan D. Calkins, PhD	University of North Carolina	RPHB
Ronald J. Callahan, PhD	Massachusetts General Hospital	SRB
Edward M. Callaway, PhD	Salk Institute For Biological Studies	MSD
Patrick S. Callery, PhD	West Virginia University	BPC, IDM
Michele P. Calos, PhD	Stanford University	GNS
Paul Calvert, PhD	University of Massachusetts System	BDCN, MSD
Mona S. Calvo, PhD	Food and Drug Administration	ENR
Stephen M. Camarata, PhD	Vanderbilt University	BBBP
Carlos Camargo, DRPH, MD	Massachusetts General Hospital	HOP
Bruce Camblin	Change Systems For Educators	BBBP
William E. Cameron, PhD	Oregon Health and Science University	BBBP
Anthony T. Campagnoni, PhD	University of California, Los Angeles	CDF
Dario Campana, MD, PhD	St. Jude Children's Research Hospital	ONC
Charles E. Campbell,	Ophthalmic Optics	BDCN
Doris W. Campbell, PhD	University of South Florida	RPHB
Iain L. Campbell, PhD	University of Sydney	MDCN
Kevin P. Campbell, PhD	University of Iowa	MSD
Lee A. Campbell, PhD	University of Washington	IDM
Melanie C.W. Campbell, PhD	University of Waterloo	CDF

Phil G. Campbell, PhD	Carnegie Mellon University	MSD
Robert B. Campbell, PhD	Northeastern University	BCS
Scott S. Campbell, PhD	Weill Medical College of Cornell University	BBBB, HOP
Sharon L. Campbell, PhD	University of North Carolina	CDF
Stewart Campbell, PhD	Surface Logix, Inc	BPC
Sally A. Camper, PhD	University of Michigan at Ann Arbor	GNS
Antonio Campos-Neto, MD, PhD	Forsyth Institute	AARR, IDM
Linda A. Camras, PhD	De Paul University	RPHB
Michael P. Cancro, PhD	University of Pennsylvania	IMM
Jose M. Canive, MD	American Society of Hispanic Psychiatry	BBBB
Stephen C. Cannon, MD, PhD	University of Texas Southwestern Medical Center at Dallas	MSD
Nell B. Cant, PhD	Duke University Medical Center	IFCN, MDCN
Hal C. Cantor, PhD	Advanced Sensor Technologies, Inc	BDCN
Angela R. Cantrell, PhD	University of Tennessee	MDCN
John M. Canty, MD	State University of New York at Buffalo	CVS
Huyen L. Cao, MD	Public Health Foundation Enterprises	AARR
Xu Cao, PhD	University of Alabama at Birmingham	PPS
Deborah M. Capaldi, PhD	Oregon Social Learning Center, Inc	RPHB
Michael G. Caparon, MD, PhD	Washington University	IDM, MSD
Blanche C. Capel, PhD	Duke University Medical Center	ENR
Malcolm S. Capel, PhD	Cornell University	BPC
Michael J. Caplan, MD, PhD	Yale University	CVS
Norman F. Capra, PhD	University of Maryland Baltimore Professional School	MSD
Sonia Caprio, MD	Yale University School of Medicine	NMS
Richard M. Caprioli, PhD	Vanderbilt University	BPC
Manuel Carballo, PhD	ICMH Geneva, Switzerland	RPHB
Jaime G. Carbonell, PhD	Carnegie Mellon University	BPC
David E. Card, PhD	National Bureau of Economic Research	HOP
Patrick J. Card, PhD	University of Pittsburgh	IFCN
Maria E. Cardenas, PhD	Duke University Medical Center	CDF
Richard A. Cardullo, PhD	Gordon Research Conferences	CDF
Regina M. Carelli, PhD	Wake Forest University Health Sciences	IFCN
Gregory G. Carey, PhD	University of Colorado	HOP
Kate B. Carey, PhD	Syracuse University	BBBB
Paul R. Carey, PhD	Case Western Reserve University	BPC
Roberta B. Carey, PhD	Loyola University Medical Center	IDM
Susan Carey, PhD	Harvard University	BBBB
Thomas E. Carey, PhD	University of Michigan at Ann Arbor	IFCN
Robert L. Carithers, MD	University of Washington Medical Center	PPS
Cathleen R. Carlin, PhD	Case Western Reserve University	ONC
John V. Carlis, PhD	University of Minnesota, Twin Cities	BPC
Drew E. Carlson, PhD	University of Maryland	SRB
Elwood D. Carlson, PhD	Florida State University	HOP
Heather A. Carlson, PhD	University of Michigan	BPC
Jonathan O. Carlson, PhD	Colorado State University	IDM
Donal E. Carlston, PhD	Purdue University, West Lafayette	RPHB
Susan M. Carlton, PhD	University of Texas Medical Branch at Galveston	BDCN
Gordon G. Carmichael, PhD	University of Connecticut Health Center	IDM
Pamela K. Carmines, PhD	University of Nebraska Medical Center	MSD
Nicholas Theodore Carnevale, MD, PhD	Yale University	MDCN
Marc G. Caron, PhD	Duke University	ENR
Charles B. Carpenter, MD	Brigham and Women's Hospital	IMM
Christopher Carpenter, MD, PhD	Beth Israel Deaconess Medical Center	IMM
Kelly M. Carpenter, PhD	Talaria, Inc	RPHB
William T. Carpenter, MD	University of Maryland Baltimore Professional School	HOP
Catherine E. Carr, PhD	University of Maryland, College Park	IFCN
Deborah S. Carr, PhD	Institute of Health, Health Care Policy and Aging Research	HOP
Lucinda G. Carr, PhD	Indiana University	IFCN
Bridget O. Carragher, PhD	Scripps Research Institute	MDCN
Sybil Carrere, PhD	University of Washington	RPHB

Oscar A. Carretero, MD, PhD	Henry Ford Hospital	CVS
Walter A. Carrington, PhD	University of Massachusetts	CDF
Raymond J. Carroll, PhD	Texas A&M University	HOP
William L. Carroll, MD	National Childhood Cancer Foundation	BDCN
Vern Carruthers, PhD	Johns Hopkins University	GNS
Mary A. Carskadon, PhD	Emma Pendleton Bradley Hospital	BDCN
Daniel D. Carson, PhD	University of Delaware	BCS
Paul L. Carson, PhD	University of Michigan at Ann Arbor	SRB
Shannon S. Carson, MD	University of North Carolina, Chapel Hill	HOP
Gregory D. Cartee, PhD	University of Michigan at Ann Arbor	MSD
Alice S. Carter, PhD	University of Massachusetts	BBBP, RPHB
Betty J. Carter	Completechild Development, LLC	RPHB
Dennis R. Carter, PhD	Stanford University	MSD
Robert H. Carter, MD	University of Alabama at Birmingham	BPC
Sue Carter, PhD	University of Illinois at Chicago	BBBP
William G. Carter, PhD	Fred Hutchinson Cancer Research Center	MSD
Richard W. Carthew, PhD	Northwestern University	CDF
Arturo Casadevall, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	IDM
Thomas L. Casavant, PhD	University of Iowa	GNS
Wayne Cascio, MD	University of North Carolina, Chapel Hill	PPS
David A. Case, PhD	Scripps Research Institute	BPC
Douglas L. Case, PhD	Wake Forest University	HOP
Patricia Case, ScD	Harvard University Medical School	AARR, BBBP
Jane Case-Smith, Edd, PhD	Ohio State University	BBBP
B.J. Casey, PhD	Weill Medical College of Cornell University	BBBP
Carol A. Casey, PhD	University of Nebraska Medical Center	PPS
Kenneth L. Casey, MD	University of Michigan at Ann Arbor	IFCN
Michael E. Casey, PhD	CTI Pet Systems	SRB
Patrick J. Casey, PhD	Duke University	CDF
Sherwood Casjens, PhD	University of Utah	IDM
Diana Casper, PhD	Montefiore Medical Center	BDCN
Stephen Cass, MD	University of Pittsburgh	IFCN
Lucio Castilla, PhD	University of Massachusetts Medical School, Worcester	ONC
Gerardo M. Castillo, PhD	Proteotech, Inc	MDCN
David G. Castner, PhD	University of Washington	BCS
Anne M. Cataldo, PhD	McLean Hospital (Belmont, MA)	BDCN
Veronica M. Catanese, MD	New York University School of Medicine	SRB
Diane Catellier, PhD	University of North Carolina, Chapel Hill	CVS
Martha K. Cathcart, PhD	Cleveland Clinic Foundation	CVS
Delwyn Catley, PhD	University of Kansas Medical Center	RPHB
Robert M. Caudle, PhD	University of Florida	IFCN
Gert Cauwenberghs, PhD	Johns Hopkins University	IFCN
Ercole Cavalieri, DSc, PhD	University of Nebraska Medical Center	ONC
Harrison Dwight Cavanagh, MD, PhD	University of Texas Southwestern Medical Center at Dallas	BDCN
Jose E. Cavazos, MD, PhD	University of Texas Health Science Center	BDCN
Kevin M. Caves	Duke University Medical Center	MSD
Gary L. Cecchini, PhD	University of Rhode Island	IDM
Arthur I. Cederbaum, PhD	Mount Sinai School of Medicine	PPS
Stephen D. Cederbaum, MD	University of California, Los Angeles	BCS
David E. Cella, PhD	Evanston Northwestern Healthcare Research Institute	RPHB
Roberto L. Ceriani, MD, PhD	Senomed, Inc	ONC
Miguel Cervantes-Cervantes, PhD	Lehman College	IMM
Ethel Cesarman, MD, PhD	Weill Medical College of Cornell University	AARR
Thomas C. Cetas, PhD	University of Arizona	SRB
Samuel K. Chacko, DVM, PhD	University of Pennsylvania School of Medicine	MSD
George Chaconas, PhD	University of Calgary	IDM
Sunil Chada, PhD	Introgen Therapeutics, Inc	ONC
Gary L. Chadwick, PhD	University of Rochester	HOP
Welda L. Chaffin, PhD	Texas Tech University	MSD
David R. Chafin, PhD	Integrated Nano-Technologies, LLC	AARR

Toby C. Chai, MD	University of Maryland	MSD
J. Bradford Chaires, PhD	University of Mississippi Medical Center	BPC
Alan Chait, MD	University of Washington	CVS
Brian T. Chait, DPH	The Rockefeller University	BPC
Amitabh Chak, MD, PhD	Case Western Reserve University	PPS
Debopam Chakrabarti, PhD	University of Central Florida	IDM
Arup Chakraborty, PhD	University of California, Berkeley	BPC
Dev P. Chakraborty, PhD	University of Pittsburgh	SRB
Shukti Chakravarti, PhD	Johns Hopkins University	BDCN
Leo M. Chalupa, PhD	University of California, Davis	CDF
Jeffrey S. Chamberlain, PhD	University of Washington	BCS, MSD
Janice E. Chambers, PhD	Mississippi State University	HOP
Thomas J. Chambers, MD	St. Louis University	AARR, IDM, PPS
Timothy C. Chambers, PhD	University of Arkansas For Medical Sciences	ONC
Tod Chambers, PhD	Northwestern University	GNS
Paul M. Champion, PhD	Northeastern University	BPC
Victoria L. Champion, DNSc,	Indiana University	HOP
Andrew C. Chan, MD, PhD	Genentech, Inc	BPC
Daniel Chan, PhD	University of Colorado Health Sciences Center	ONC
Edward D. Chan, MD	National Jewish Medical and Research Center	IDM
Heang-Ping Chan, PhD	University of Michigan at Ann Arbor	SRB
John Chan, PhD	Engeneos, Inc	AARR
John R. Chan, MD	Albert Einstein College of Medicine, Yeshiva University	IDM
Wai Yee Chan, PhD	Georgetown University	NMS
Mark R. Chance, PhD	Yeshiva University	MSD
Michael B. Chancellor, MD, PhD	University of Pittsburgh	MSD
Nalini Chandar, PhD	Midwestern University	ONC
Paramjit S. Chandhoke, MD, PhD	University of Colorado Health Sciences Center	MSD
Ramesh Chandra, PhD	New York University Medical Center	SRB
Krish Chandrasekaran, PhD	University of Maryland Baltimore Professional School	BDCN
Edward L. Chaney, PhD	University of North Carolina	SRB
Ching-Jer Chang, PhD	Purdue University	BPC
David D. Chang, MD, PhD	University of California, Los Angeles	ONC
Jing-Yu Chang, MD, PhD	Wake Forest University Health Sciences	BDCN
Kwang-Poo Chang	Finch University of Health Sciences/Chicago Medical School	CDF
Kyong-Mi M. Chang, MD	University of Pennsylvania School of Medicine	PPS
Patricia L. Chang, PhD	Mcmaster University	BCS
Sulie L. Chang, PhD	Seton Hall University	AARR
David S. Channin, MD	Northwestern University	BPC, MSD, SRB
Lee Chao, PhD	University of South Carolina	CVS
Barbara Chapman, PhD	University of California, Davis	IFCN
Martin D. Chapman, PhD	Indoor Biotechnologies Inc	AARR
Michael S. Chapman, PhD	Florida State University	BPC
Paul B. Chapman, MD	Sloan-Kettering Institute For Cancer Research	ONC
Richard C. Chapman, PhD	University of Chicago	BBBP
Amy O. Charkowski, PhD	University of Arizona	IDM
Clivel G. Charlton, PhD	Central Florida Community College	IFCN
Michael R. Charlton, MD	Mayo Clinic, Rochester	PPS
Nyles W. Charon, PhD	West Virginia University	IDM, MSD
Gary A. Chase, PhD	Georgetown University Medical Center	GNS
Gerald Chastain	Learning Multi-Systems, Inc	RPHB
Malaya Chatterjee, PhD	University of Cincinnati Medical Center	ONC
Saswati Chatterjee, PhD	City of Hope/Beckman Research Institute	GNS
Sunil K. Chatterjee, PhD	University of Cincinnati	ONC
Vincent Chau, MD, PhD	Pennsylvania State University Hershey Medical Center	BCS
Minu Chaudhuri, PhD	Meharry Medical College	AARR
Linda Chaudron, MD	University of Rochester Medical Center	RPHB
Irshad H. Chaudry, PhD	University of Alabama at Birmingham	SRB
Arthur B. Chausmer, MD, PhD	Louisiana State University at Shreveport	SRB
Charles Chavkin, PhD	University of Washington	IFCN

William P. Cheevers, PhD	Washington State University	IDM
Farid F. Chehab, PhD	University of California, San Francisco	ENR
Thomas C. Chelimsky, MD	Case Western Reserve University School of Medicine	MSD
Srikumar P. Chellappan, PhD	H. Lee Moffitt Cancer Center and Research Institute	ONC
Changyi J. Chen, MD, PhD	Baylor College of Medicine	AARR
Chen-Lo H. Chen, PhD	University of Alabama at Birmingham	IMM
Christopher S. Chen, MD, PhD	Johns Hopkins University	SRB
David J.C. Chen, MD, PhD	Lawrence Berkeley National Laboratory	ONC
Jeannie Chen, PhD	University of Southern California	CDF
John C. Chen, MD	University of Hawaii at Manoa	SRB
Jun Chen, MD, PhD	University of Pittsburgh	BDCN
Lieping Chen, MD, PhD	Mayo Clinic, Rochester	BPC
Ming S. Chen, PhD	Plantaceutica, Inc	IDM
Peng-Sheng Chen, MD	Cedars-Sinai Medical Center	BDCN
Rey-Huei Chen, PhD	Cornell University	CDF
Shu G. Chen, PhD	Case Western Reserve University	BDCN
Suzie Chen, PhD	Rutgers University	ONC
Weiliam Chen, PhD	State University of New York at Stony Brook	MSD
Xiang Yang Chen, PhD	Wadsworth Center	BDCN
Xianging (Sam) Chen, PhD	Virginia Commonwealth University	GNS
Xinbin Chen, PhD	University of Alabama at Birmingham	ONC
Yong Q. Chen, PhD	Wake Forest University Health Sciences	MSD
Yuan Chen, PhD	City of Hope National Medical Center	BPC
Zheng W. Chen, MD, PhD	Beth Israel Deaconess Medical Center	IDM
Carl D. Cheney, PhD	Utah State University	RPHB
Paul D. Cheney, PhD	University of Kansas Medical Center	IFCN
Alec M. Cheng, PhD	Washington University	IMM
Che-Ping Cheng, MD, PhD	Wake Forest University Health Sciences	CVS, HEME
Genhong Cheng, PhD	University of California, Los Angeles	IMM
Keith C. Cheng, MD, PhD	Pennsylvania State University College of Medicine	CDF
Kwan K. Cheng, PhD	Texas Tech University	BPC
Patricia W. Cheng, PhD	University of California, Los Angeles	BBBP
Quan Jason Cheng, PhD	University of California	BPC
Seng H. Cheng, PhD	Genzyme Corporation	GNS
Xiaodong Cheng, PhD	University of Texas Medical Branch	MSD
Lucy Cherbas, PhD	Indiana University	GNS
Don R. Cherek, PhD	University of Texas Health Science Center, Houston	BBBP
Jonathan D. Chernoff, MD, PhD	Institute For Cancer Research	BCS
Simon R. Cherry, PhD	University of California, Davis	SRB
Ronald Chervin, MD	University of Michigan Health System	HOP
Alexander V. Chervovsky, MD, PhD	Jackson Laboratory	BPC
Charles H. Chesnut, MD	University of Washington	HOP
Herbert C. Cheung, PhD	University of Alabama at Birmingham	BBBP
Nai-Kong V. Cheung, MD, PhD	Sloan-Kettering Institute For Cancer Research	ONC
Vivian G. Cheung, MD	Children's Hospital of Philadelphia	GNS
David Chi	East Tennessee State University	AARR
David I. Chia, PhD	University of California, Los Angeles	ONC
Chin Chiang, PhD	Vanderbilt University Medical Center	ONC
John Y. Chiang, PhD	Northeastern Ohio Universities College of Medicine	CVS
Christine L. Chiarello, PhD	University of California, Riverside	BBBP
Emil J. Chiauzzi, PhD	Inflexxion, Inc	HOP
Sufan Chien, MD	University of Louisville	MSD, SRB
Steven R. Childers, PhD	Wake Forest University Health Sciences	IFCN, MDCN, ONC
Geoffrey J. Childs, PhD	Albert Einstein College of Medicine, Yeshiva University	MDCN
Ashutosh Chilkoti, PhD	Duke University	BCS, CVS
Beverly S. Chilton, PhD	Texas Tech University Health Sciences Center	ENR
Lawrence S. Chin, MD	University of Maryland	BDCN
Raymond C.Y. Chin, PhD	Indiana University	SRB
Maurizio Chiriva-Internati, PhD	Texas Tech University Health Sciences Center	IMM
Ajay B. Chitnis, PhD	National Institute of Child Health and Human Development	MDCN

Arlene Y. Chiu, PhD	National Institute of Neurological Disorders and Stroke	BDCN
Ray C. Chiu, MD, PhD	Montreal General Hospital	MSD, SRB
Judy H. Cho, MD	University of Chicago	GNS
Kathleen R. Cho, MD	University of Michigan Medical School	ONC
Moo J. Cho, PhD	University of North Carolina, Chapel Hill	CVS, ONC
Zang-Hee Cho, PhD	University of California	SRB
Adam Chodobski, PhD	Rhode Island Hospital (Providence, RI)	BDCN
James Chodosh, MD	University of Oklahoma Health Sciences Center	BDCN
Kyunghee H. Choi, PhD	Washington University	CDF
Min-Hyung Choi, PhD	University of Colorado at Denver	SRB
Yongwon Choi, PhD	University of Pennsylvania	MSD
Roger W. Cholewiak, PhD	Princeton University	BDCN
Jacek Cholewicki, PhD	Yale University School of Medicine	MSD
Ashok K. Chopra, PhD	University of Texas Medical Branch at Galveston	IDM
Margaret M. Chou, PhD	University of Pennsylvania	CDF
Sunwen Chou, MD	Portland Veterans Affairs Research Foundation, Inc	PPS
Christine S. Chow, PhD	Wayne State University	BPC
Laurence C. Chow, PhD	American Dental Association Health Foundation	MSD
Marie Chow, PhD	University of Arkansas For Medical Sciences	CDF
Noel J. Chrisman, PhD	University of Washington	HOP
George J. Christ, PhD	Yeshiva University	MSD
Nicholas A. Christakis, MD, PhD	Harvard University Medical School	HOP
Alan J. Christensen, PhD	University of Iowa	RPHB
Ann Christensen, PhD	Pima Community College	IMM
Kathee M. Christensen, PhD	San Diego State University	BBBP
Neil D. Christensen, PhD	Pennsylvania State University Hershey Medical Center	IDM
Thomas A. Christensen, PhD	University of Arizona	MDCN
David C. Christiani, MD	Harvard University School of Public Health	HOP
Angela M. Christiano, PhD	Skinetics Bioscience, LLC	MSD
David W. Christianson, PhD	University of Pennsylvania	BPC
Peter J. Christie, PhD	University of Texas Health Science Center, Houston	IDM
Nicolas A. Chronos, MD	American Cardiovascular Research Institute	HEME
Benjamin Chu, PhD	Gordon Research Conferences	BPC
David C. Chu, PhD	University of Georgia	AARR
May C. Chu, PhD	Centers For Disease Control and Prevention	IDM
Mon-Li H. Chu, PhD	Thomas Jefferson University	MSD
Roy S. Chuck, PhD	University of California, Irvine	MDCN
Eric H. Chudler, PhD	University of Washington	BBBP
Diane C. Chugani, PhD	Wayne State University	BDCN
Harry T. Chugani, MD, PhD	Wayne State University	BDCN
Marvin M. Chun, PhD	Yale University	BBBP, IFCN
Dominic W. Chung, PhD	University of Washington	HEME
Cheng-Ming Chuong, MD, PhD	University of Southern California	MSD
Russell M. Church, PhD	Brown University	BBBP
Gary A. Churchill, PhD	Jackson Laboratory	GNS
Theodore P. Ciaraldi, PhD	University of California, San Diego	NMS
Paul S. Ciechanowski, MD	University of Washington	RPHB
George A. Cioffi, MD	Emanuel Hospital and Health Center	CDF
Deborah M. Ciombor, PhD	Rhode Island Hospital (Providence, RI)	SRB
Kenneth J. Ciuffreda, OD, PhD	State College of Optometry	BDCN
Emil Ciurczak		BPC
Roberto Civitelli, MD	Barnes-Jewish Hospital	MSD
Giovanni Cizza, MD, PhD	National Institute of Mental Health	RPHB
Rolf Clackdoyle, PhD	Medical Imaging Research Laboratory	SRB
Kevin P. Claffey, PhD	University of Connecticut School of Medicine and Dentistry	ONC
Brenda J. Claiborne, PhD	University of Texas at San Antonio	CDF
Kevin Clancy, PhD	Informax	ONC
Paul R. Clapham, PhD	University of Massachusetts Medical School, Worcester	AARR
Andrew G. Clark, PhD	Cornell University, Ithaca	IFCN
Bernard J. Clark, MD	Children's Hospital of Philadelphia	CVS

Duncan B. Clark, MD, PhD	University of Pittsburgh	RPHB
Edward A. Clark, MD, PhD	University of Washington	IMM
John I. Clark, PhD	University of Washington	BDCN
Lauren Clark, PhD	University of Colorado Health Sciences Center	HOP
Margaret S. Clark, PhD	Carnegie Mellon University	RPHB
Mary Kathleen Clark, PhD	University of Iowa	HOP
Michael R. Clark, MD, PhD	Johns Hopkins Hospital	RPHB
Patricia C. Clark, PhD	Emory University	HOP
Robert F. Clark	National Association of Community Action Agencies	HOP
Robert S. Clark, MD	University of Pittsburgh	BDCN
Catherine F. Clarke, PhD	University of California, Los Angeles	AARR
Jean M. Clarke, DVM, PhD	Nomadics, Inc	IDM
Robert Clarke, PhD	Georgetown University	CDF
Allen B. Clarkson, PhD	New York University Medical Center	AARR
Eric Clarkson, PhD	University of Arizona	SRB
Stephen J. Clarkson, PhD	University of Cincinnati	MSD
Michael C. Clatts, PhD	National Development and Research Institutes	AARR, HOP
Elizabeth B. Claus, MD, PhD	Yale University	HOP
Karl Clauser, PhD	Millennium Pharmaceuticals Inc	BPC
Gary A. Clawson, MD, PhD	Milton S. Hershey Medical Center	ONC
Kevin R. Cleary, PhD	Kitware, Inc	MDCN
Robert M. Clegg, PhD	University of Illinois at Urbana-Champaign	GNS
Linda H. Clemens, Edd	University of Memphis	NMS
Mark G. Clemens, PhD	University of North Carolina, Chapel Hill	SRB
Paula R. Clemens, MD, PhD	University of Pittsburgh	BCS
Thomas L. Clemens, PhD	University of Cincinnati School of Medicine	MSD
David R. Clemmons, MD	University of North Carolina, Chapel Hill	ENR
Charles V. Clevenger, MD, PhD	University of Pennsylvania	ENR
Hollis T. Cline, PhD	University of Iowa	MDCN
Neal H. Clinthorne, MD, PhD	University of Michigan	SRB
Denis R. Clohisy, MD	University of Minnesota	MSD
Guy Cloutier, PhD	Clinical Research Institute of Montreal	SRB
Robert T. Clubb, PhD	University of California, Los Angeles	IDM
W. Terence Coakley, PhD	Cardiff University	AARR
Robert M. Coates, PhD	University of Illinois at Urbana-Champaign	BPC
Thomas J. Coates, MD, PhD	University of California, Los Angeles	AARR
Andrea G. Cochran, PhD	Whitehead Institute For Biomedical Research	BPC
Susan D. Cochran, PhD	University of California, Los Angeles	HOP
Dianna D. Cody, PhD	University of Texas M.D. Anderson Cancer Center	SRB
Vivian Cody, PhD	Hauptman-Woodward Medical Research Institute	AARR
Wayne Cody, PhD	Parke Davis Pharmaceutical Research	BPC
Christopher L. Coe, PhD	University of Wisconsin	HOP
Jeffery L. Coffey, PhD	Texas Christian University	BPC
Robert J. Coffey, MD	Vanderbilt University	ONC
Julie A. Coffield, DVM, PhD	University of Georgia	AARR
Kathy Lee Coffman, MD	Cedars-Sinai Medical Center	RPHB
Richard E. Coggeshall, MD	University of Texas Medical Branch	BDCN
Robert C. Coghill, PhD	Wake Forest University Health Sciences	MSD
Frank B. Cogswell, PhD	Tulane Regional Primate Research Center	IDM
Bruce N. Cohen, PhD	California Institute of Technology	MDCN
David E. Cohen, MD, PhD	Yeshiva University	PPS
Helen S. Cohen, Edd, PhD	Baylor College of Medicine	IFCN
I. Kelman Cohen, MD	Medical College of Virginia	SRB
Lawrence B. Cohen, MD, PhD	Yale University	IFCN
Leonardo G. Cohen, MD	National Institute of Neurological Disorders and Stroke	IFCN
Lorenzo Cohen, PhD	University of Texas M.D. Anderson Cancer Center	RPHB
Michael B. Cohen, MD	University of Iowa	ONC
Myron S. Cohen, MD	University of North Carolina, Chapel Hill	AARR
Neal J. Cohen, PhD	University of Illinois	IFCN
Patricia R. Cohen, PhD	Columbia University	RPHB

Peter A. Cohen, MD	Cleveland Clinic Foundation	ONC
Philip L. Cohen, MD	University of Pennsylvania	MSD
Rochelle S. Cohen, PhD	University of Illinois at Chicago	CDF
Sheldon A. Cohen, PhD	Carnegie Mellon University	BBBB
Stanley Cohen, MD, PhD	University of Medicine and Dentistry of New Jersey-New Jersey Medical School	IMM
Susana Cohen-Cory, PhD	University of California, Irvine	IFCN
Aaron I. Cohn, MD	University of Colorado Health Sciences Center	SRB
Jonathan A. Cohn, MD	Duke University	NMS
Robert A. Colbert, MD, PhD	Children's Hospital Medical Center, Cincinnati	MSD
Roger J. Colbran, PhD	Vanderbilt University School of Medicine	MDCN
H. Steven Colburn, PhD	Boston University, Charles River Campus	IFCN
David Morris Colcher, PhD	Coulter Pharmaceuticals, Inc	ONC
Ada A. Cole, PhD	Rush-Presbyterian-St. Luke's Medical Center	MSD
Alexander M. Cole, PhD	University of Central Florida	AARR
Barry C. Cole, PhD	University of Utah	IDM
David J. Cole, MD	Medical University of South Carolina	ONC
Garry T. Cole, PhD	Medical College of Ohio at Toledo	IDM
Gregory J. Cole, PhD	North Carolina State University, Raleigh	MSD
Gregory M. Cole, PhD	University of California, Los Angeles	BDCN
Kelly J. Cole, PhD	University of Iowa	MSD
Michael D. Cole, PhD	Dartmouth College	BCS
Ronald A. Cole, PhD	University of Colorado at Boulder	BBBB
Robert S. Coleman, PhD	Ohio State University	BPC
Rosalind A. Coleman, MD	University of North Carolina	ENR
Thomas G. Coleman, PhD	University of Mississippi	SRB
Sean Colgan, PhD	Brigham and Women's Hospital	MSD
Deirdre Coll, MD	Cornell University Medical College	SRB
Andres Collazo, PhD	House Ear Institute	IFCN
Daniel G. Colley, PhD	University of Georgia	IDM
Karen J. Colley, PhD	University of Illinois at Chicago	BCS, BDCN
Nansi J. Colley, PhD	University of Wisconsin	CDF
Timothy J. Collier, PhD	Rush-Presbyterian-St. Luke's Medical Center	BDCN
Patricia A. Collin-Osdoby, PhD	Washington University	MSD
Edward J. Collins, PhD	University of North Carolina	IMM
Jerry Collins, PhD	Yale University	SRB
R. Lorraine Collins, PhD	State University of New York at Buffalo	RPHB
Sheila Collins, PhD	Duke University Medical Center	NMS
William E. Collins, PhD	Howard University	MSD
Ronald G. Collman, MD	University of Pennsylvania	AARR
David R. Colman, PhD	Mcgill University	MDCN
Roberta F. Colman, PhD	University of Delaware	CDF
Hector M. Colon, PhD	Universidad Central Del Caribe	AARR
Wilfredo Colon, PhD	Rensselaer Polytechnic Institute	MDCN
Marco Colonna, MD	Washington University	IMM
Ian Colrain, PhD	Sri International	RPHB
Richard J. Colton, PhD	United States Naval Research Laboratory	BPC
Mike Colvin, PhD	Lawrence Livermore National Laboratory	MDCN
O. Michael Colvin, MD	Duke University Medical Center	ONC
Chris S. Colwell, PhD	University of California, Los Angeles	IFCN
Gregory Brian Colwell, PhD	Texas A&M University Health Science Center	RPHB
Sandra D. Comer, PhD	New York State Psychiatric Institute	BBBB
Fabio Cominelli, MD, PhD	University of Virginia	PPS
Patrick J. Concannon, PhD	Benaroya Research Institute at Virginia Mason	ONC
Jose A. Conchello, PhD	Oklahoma Medical Research Foundation	BPC
Celeste M. Condit, PhD	University of Georgia	GNS
Richard C. Condit, PhD	University of Florida	AARR
Robert E. Cone, PhD	University of Connecticut School of Medicine and Dentistry	BDCN, IMM
Roger D. Cone, PhD	Oregon Health and Science University	NMS
Ponjola Coney, MD	Meharry Medical College	ENR

Kathleen F. Conklin, PhD	University of Minnesota, Twin Cities	IDM
Wayne Conlan, PhD	National Research Council of Canada	AARR
Anthony J. Conley, PhD	Merck Research Laboratories	AARR
Jan E. Conn, PhD	Wadsworth Center	IDM
Michael P. Conneally, PhD	Indiana University-Purdue University, Indianapolis	GNS, HOP
Barbara Connell,	Echo Bridge Productions, Inc	HOP
Nancy D. Connell, PhD	University of Medicine and Dentistry of New Jersey	IDM
Terry D. Connell, PhD	State University of New York at Buffalo	IDM
Kenneth R. Conner, PhD	University of Rochester Medical Center	RPHB
Margaret E. Conner, PhD	Baylor College of Medicine	AARR
John A. Connor, PhD	University of New Mexico, Albuquerque	MDCN
Cheryl D. Conrad, PhD	Arizona State University	BDCN
Peter F. Conrad, PhD	Brandeis University	GNS
Lorraine M. Conroy, ScD	University of Illinois at Chicago	HOP
Maureen Conroy, PhD	University of Florida	BBBP
R. Todd Constable, PhD	Yale University	SRB
Ioannis Constantinidis, PhD	University of Florida	MSD
Nora Constantino, PhD	University of Nevada	RPHB
Chris Contag, PhD	Stanford University	CDF, SRB
Claudio J. Conti, DVM, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Vincent P. Conticello, PhD	Emory University	MSD
Bianca M. Conti-Fine, MD, PhD	University of Minnesota	BDCN
Jose L. Contreras-Vidal, PhD	University of Maryland, College Park	IFCN
Thomas E. Conturo, MD, PhD	Washington University School of Medicine	SRB
Tyrrell Conway, PhD	University of Oklahoma, Norman	BPC
Suzanne D. Conzen, MD	University of Chicago	ONC
Edwin H. Cook, MD, PhD	University of Chicago	BBBP
Edwin W. Cook, MD, PhD	University of Alabama at Birmingham	BBBP
Gregory R. Cook, PhD	North Dakota State University	BPC
James A. Cook, PhD	Medical University of South Carolina	SRB
Thomas J. Cook, PhD	Rutgers University	BPC
William J. Cooke, PhD	Eastern Virginia Medical School	SRB
Mark R. Cookson, PhD	National Institute on Aging	MDCN
Lique M. Coolen, PhD	University of Cincinnati	MSD
David W. Coon, PhD	Goldman Institute on Aging	AARR
Hilary H. Coon, PhD	University of Utah	GNS
Austin Cooney, PhD	Baylor College of Medicine	NMS
Andrea M. Cooper, PhD	Colorado State University	IDM
Barbara Cooper, PhD	Mcmaster University	MSD
Carlton R. Cooper, PhD	University of Delaware	CDF
Joel Cooper, PhD	Princeton University	RPHB
Morris D. Cooper, PhD	Southern Illinois University at Carbondale	AARR
Richard S. Cooper, MD	Loyola University Medical School	HOP
Terrance G. Cooper, PhD	University of Tennessee Health Science Center	IDM
Thomas Cooper, MD, PhD	Baylor College of Medicine	MSD
Judith Cope, MD	Children's National Medical Center	HOP
Robert L. Copeland, PhD	Howard University	PPS
Valerie Copie, PhD	Montana State University, Bozeman	BPC
William M. Coplin, MD	Wayne State University	BDCN
Maurizio M. Corbetta, MD	Washington University School of Medicine	IFCN
Giselle Corbie-Smith, MD	University of North Carolina, Chapel Hill	GNS
Daniel M. Corcos, PhD	University of Illinois at Chicago	BBBP, PPS, MSD
Jeffry L. Corden, PhD	Johns Hopkins University School of Medicine	CDF
Josef Coresh, MD, PhD	Johns Hopkins University	HOP
Linda A. Corey, PhD	Virginia Commonwealth University	HOP
Carl W. Cork, PhD	Lawrence Berkeley National Laboratory	BPC
Brendan Cormack, PhD	Johns Hopkins University	AARR
Robert M. Corn, PhD	University of Wisconsin, Madison	CDF
David R. Cornblath, MD	Johns Hopkins Hospital	MDCN
Cynthia N. Cornelissen, PhD	Virginia Commonwealth University	IDM

Kenneth G. Cornetta, MD	Indiana University School of Medicine	ONC
Daniel Cornfield, PhD	Vanderbilt University	RPHB
Carter M. Cornwall, PhD	Boston University, Medical Campus	CDF, MDCN
John J. Correia, PhD	University of Mississippi Medical Center	BCS
Deborah A. Cory-Slechta, PhD	University of Rochester Medical School	BDCN
Carmine J. Coscia, PhD	St. Louis University School of Medicine	MDCN
Dominic E. Cosgrove, PhD	Father Flanagan's Boys' Home	IFCN
Kevin D. Costa, PhD	Columbia University	IDM
Franklin D. Costantini, PhD	Columbia University College of Physicians and Surgeons	CDF
Catherine E. Costello, PhD	Boston University School of Medicine	BCS, BPC, CDF
Elizabeth J. Costello, PhD	Duke University Medical Center	RPHB
Jane Costello, PhD	Duke University Medical Center	RPHB
Gerald L. Cote, PhD	Texas A&M University System	BPC, SRB
Gilbert J. Cote, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Carl W. Cotman, PhD	University of California, Irvine	MDCN
Peggy A. Cotter, PhD	University of California, Santa Barbara	IDM
Robert J. Cotter, PhD	Johns Hopkins University	BPC, IDM
Richard T. Coughlin, PhD	Immucell Corporation	SRB
Shaun R. Coughlin, MD, PhD	University of California	CVS, HEME
Pierre A. Coulombe, PhD	Johns Hopkins University	MSD
Joe D. Coulter, PhD	University of Iowa	CDF
James Council, PhD	North Dakota State University	RPHB
Scott W. Cousins, MD	University of Miami School of Medicine	MDCN
Timothy L. Cover, MD	Vanderbilt University	IDM
Ann E. Cowan, PhD	University of Connecticut Health Center	SRB
Marie J. Cowan, PhD	University of California, Los Angeles	HOP
David A. Cowburn, DSc	New York Structural Biology Center	BPC
John S. Cowdery, MD	University of Iowa	IMM
John K. Cowell, DSc	Roswell Park Cancer Institute	ONC
Carol O. Cowing, PhD	Lancell, LLC	IMM
Siobhan C. Cowley, PhD	Food and Drug Administration	IDM
Adrienne D. Cox, PhD	University of North Carolina, Chapel Hill	ONC
Daniel J. Cox, PhD	University of Virginia Health System	BBBP
Edward C. Cox, PhD	Princeton University	GNS
Josephine H. Cox, PhD	SRA Technologies, Inc	AARR, IMM
Martha J. Cox, PhD	University of North Carolina	RPHB
Michael M. Cox, PhD	University of Wisconsin, Madison	IDM
Nancy J. Cox, PhD	University of Chicago	GNS
Robert W. Cox, PhD	Medical College of Wisconsin	MDCN
Diana L. Cox-Foster, PhD	Pennsylvania State University, University Park	IDM
Cathy A. Coyne, PhD	West Virginia University	HOP
Nicholas R. Cozzarelli, PhD	University of California, Berkeley	IDM
Susan E. Cozzens, PhD	Georgia Institute of Technology	GNS
Joseph E. Craft, MD	Yale University	BPC
Ann M. Craig, PhD	Washington University School of Medicine	MDCN
Timothy J. Craig, DO	Pennsylvania State University Hershey Medical Center	MSD
William J. Craigen, MD, PhD	Baylor College of Medicine	CDF
Edward W. Craighead, PhD	University of Colorado	BBBP
Harold G. Craighead, PhD	Cornell University, Ithaca	BPC
Linda W. Craighead, PhD	University of Colorado at Boulder	RPHB
Barbara J. Crain, MD, PhD	Johns Hopkins University	SRB
Stephen Crain, PhD	University of Maryland	BBBP
Abie Craiu, PhD	Science Research Laboratory, Inc	CDF
Scott L. Cram, PhD	University of California	CDF
Carole L. Cramer, PhD	Virginia Tech	IDM
Stephen P. Cramer, PhD	University of California, Davis	BPC
Steven C. Cramer, MD	University of California, Irvine	BDCN
William A. Cramer, PhD	Purdue University	BPC
James D. Crapo, MD	National Jewish Medical and Research Center	IDM
Michelle G. Craske, PhD	University of California, Los Angeles	BBBP

Benjamin F. Cravatt, PhD	Scripps Research Institute	MDCN
Fiona C. Crawford, PhD	Roskamp Foundation	BDCN
Helen J. Crawford, PhD	Virginia Polytechnic Institute and State University	MSD
James M. Crawford, MD, PhD	University of Florida	PPS
Carlos J. Crespo, DrPH, PhD	State University of New York	HOP
Karen A. Creswell, PhD	Georgetown University Medical Center	HEME
Craig M. Crews, PhD	Yale University	BPC
David H. Cribbs, PhD	University of California, Irvine	BDCN
Nicki R. Crick, PhD	University of Minnesota	RPHB
Eileen M. Crimmens, PhD	University of Southern California	HOP
Michael T. Crimmins, PhD	University of North Carolina	BPC
Peter B. Crino, MD, PhD	University of Pennsylvania	BDCN
Cathy W. Critchlow, PhD	University of Washington	AARR
Keith A. Crnic, PhD	Pennsylvania State University	BBBP, RPHB
Linda S. Crnic, MD, PhD	Colorado Mental Retardation and Developmental Disabilities Research Center	BDCN
Jennifer K. Crocker, PhD	University of Michigan at Ann Arbor	RPHB
Keith R. Cromack, PhD	Abbott Laboratories	SRB
Ellen K. Cromley, PhD	University of Connecticut	HOP
Maureen Cronin, PhD	Genomic Health, Inc	BPC, ONC
Alice M. Cronin-Golomb, PhD	Boston University, Charles River Campus	BBBP
Claire R. Cronmiller, PhD	University of Virginia	GNS
Bruce N. Cronstein, MD	New York University School of Medicine	MSD
Richard Crooks, PhD	Texas A&M University	BPC
Elizabeth C. Cropper, PhD	Mount Sinai School of Medicine	IFCN
Jorge H. Crosa, PhD	Oregon Health and Science University	BPC, GNS, IDM
Rachelle H. Crosbie, PhD	University of California, Los Angeles	MSD
Richard A. Crosby, PhD	Emory University	AARR
Alan S. Cross, MD	University of Maryland	IDM
George A. Cross, PhD	The Rockefeller University	IDM
Craig E. Crosson, PhD	Medical University of South Carolina	CDF
Erika C. Crouch, MD, PhD	Washington University	PPS
Ann Crouter, PhD	Pennsylvania State University	RPHB
Mary K. Crow, MD	Arthritis Foundation (Atlanta)	SRB
James E. Crowe, MD	Vanderbilt University	IDM, IMM
Martha R. Crowther, PhD	University of Alabama at Birmingham	BBBP
Roger S. Crowther, PhD	Chrysalis Biotechnology, Inc	MSD
Keith A. Crutcher, PhD	University of Cincinnati Medical Center	BDCN, MDCN
Joseph F. Cubells, MD, PhD	Yale University	HOP
A. Claudio Cuello, DSc, MD	McGill University	BDCN
Samuel Cukierman, MD, PhD	Loyola University	IDM
Christopher T. Culbertson, PhD	Kansas State University	BPC
Karen W. Cullen, DPH, DRPH	Baylor College of Medicine	NMS, RPHB
William E. Cullinan, PhD	Marquette University	IFCN
Richard D. Cummings, PhD	University of Oklahoma Health Sciences Center	BPC, IDM
Theodore R. Cummins, PhD	Indiana University, Indianapolis	IFCN
Christopher L. Cunningham, PhD	Oregon Health and Science University	IFCN
Lee A. Cunningham, PhD	University of New Mexico	BDCN
Patrick N. Cunningham, MD	University of Chicago	CVS
Susanna R. Cunningham-Rundles, PhD	New York Hospital	IMM
Gary C. Curhan, DSc, MD	Brigham and Women's Hospital	MSD
Michael G. Curley, PhD	E.P. Limited	SRB
James F. Curran, PhD	Wake Forest University	GNS, IDM
Roy Curtiss, III, PhD	Washington University	AARR
Bruce S. Cushing, PhD	University of Illinois at Chicago	BBBP
A. Jamie Cuticchia, PhD	RTI International	MDCN
David M. Cutler, PhD	National Bureau of Economic Research	HOP
R. Brian Cutler, PhD	University of Miami School of Medicine	MSD
F. M. Cutrer, MD	Mayo Clinic, Rochester	IFCN
Carolyn E. Cutrona, PhD	Iowa State University	RPHB
Gary R. Cutter, PhD	University of Nevada, Reno	ONC

Jason G. Cyster, PhD	University of California, San Francisco	IDM
Mark J. Czaja, MD	Yeshiva University	ONC
Sara J. Czaja, PhD	University of Miami	RPHB
Michael P. Czech, PhD	Keystone Symposia	NMS
Brian J. Czerniecki, MD, PhD	University of Pennsylvania	ONC
Steven J. Czinn, MD, PhD	Case Western Reserve University	IDM
Maria F. Czyzyk-Krzaska, MD, PhD	University of Cincinnati	PPS
James C. Dabrowiak, PhD	Syracuse University	BPC
Abraham H. Dachman, MD	University of Chicago	SRB
Stephen R. Dager, PhD	University of Washington	BBBP
Valerie D. Daggett, PhD	Gordon Research Conferences	BPC
Gislin Dagnelie, PhD	Johns Hopkins University	BDCN, MDCN
Ralph B. D'Agostino, PhD	Wake Forest University	MSD
Gary V. Dahl, MD	Stanford University	ONC
Frederick W. Dahlquist, PhD	University of California, Santa Barbara	IDM
Lynnda M. Dahlquist, PhD	University of Maryland Baltimore Professional School	RPHB
Nancy M. Dahms, PhD	Medical College of Wisconsin	BCS
Michael E. Dahmus, PhD	University of California	BPC
Marc D'Alarcao, PhD	Tufts University, Medford	BPC
Jonathan M. Dalby, PhD	Communication Disorders Technology	BBBP
Richard N. Dalby, PhD	University of Maryland Baltimore Professional School	BCS
Pamela H. Dalton, PhD	Monell Chemical Senses Center	IFCN
J. W. Daly, PhD	National Institute of Diabetes and Digestive and Kidney Diseases	CDF
Margot S. Damaser, PhD	Loyola University	MSD
Robert J. D'amato, MD, PhD	Children's Hospital, Boston	CDF
Diane L. Damiano, PhD	Washington University	PPS, MSD
Elizabeth J. D'Amico, PhD	Rand Corporation	BBBP
Deborah H. Damon, PhD	University of Vermont	CVS
Patricia A. D'Amore, PhD	Schepens Eye Research Institute	NMS
Yang Dan, PhD	University of California, Berkeley	IFCN
Reza Dana, MD	Schepens Eye Research Institute	BDCN
Michael Danciger, PhD	Loyola Marymount University	CDF
Andrew B. Dancis, MD	University of Pennsylvania	BPC
Satya W. Dandekar, PhD	University of California, Davis	AARR
Firouz Daneshgari, MD	Cleveland Clinic Foundation	MSD
Rick L. Danheiser, PhD	Massachusetts Institute of Technology	BPC
John Danias, MD, PhD	Mount Sinai School of Medicine	BDCN
Stephen A. Daniel, PhD	Mercy College	IMM
Henry Daniell, PhD	University of Alabama at Birmingham	IDM
Stephen R. Daniels, MD, PhD	Children's Hospital Medical Center, Cincinnati	HOP
Phillip B. Danielson, PhD	University of Denver	IDM
Steven J. Danish, PhD	Virginia Commonwealth University	HOP
Mary K. Danks, PhD	St. Jude Children's Research Hospital	ONC
Sayed S. Daoud, PhD	Washington State University	SRB
Richard T. D'Aquila, MD	Vanderbilt University	AARR
Victor M. Darley-Usmar, PhD	Gordon Research Conferences	BDCN
Nancy E. Darling, PhD	Bard College	RPHB
Warren G. Darling, PhD	University of Iowa	BDCN
Gretchen J. Darlington, PhD	Baylor College of Medicine	ONC
Jeanine M. D'Armiesto, MD, PhD	Columbia University College of Physicians and Surgeons	CVS
William Darrow, PhD	Florida International University	RPHB
Seth A. Darst, PhD	The Rockefeller University	BPC, CDF, IDM
Thomas Darvill, PhD	College at Oswego	BBBP
Toni Darville, MD	University of Arkansas For Medical Sciences	IDM
Anath Das, PhD	University of Minnesota	GNS
Arup Das, MD, PhD	University of New Mexico, Albuquerque	CDF
Pramod K. Dash, PhD	University of Texas Health Science Center, Houston	BDCN
Z. Jeff Daskalakis, MD, PhD	University of Toronto	BDCN
Shiladitya Dassarma, PhD	University of Maryland Biotechnology Institute	IDM
Subimal Datta, PhD	Boston University School of Medicine	IFCN

Raymond Dattwyler, MD	Biopeptides, Inc	IDM
Robert S. Daum, MD	University of Chicago	IDM
Harish P. Dave, MB, MD	Geneprime, LLC	BDCN
Michael David, PhD	University of California, San Diego	IMM
Amy J. Davidoff, PhD	University of New England	NMS
Beverly L. Davidson, MD, PhD	University of Iowa	BDCN, GNS
Eugene A. Davidson, PhD	Georgetown University School of Medicine	BDCN, IDM
Karina W. Davidson, PhD	Columbia University Health Science Center	RPHB
Kevin Davidson, PhD	FSD Data Services, Inc	HOP
Nicholas O. Davidson, MD	Federation of American Societies For Experimental Biology	PPS
Terry L. Davidson, PhD	Purdue University, West Lafayette	IFCN
Victor L. Davidson, PhD	University of Mississippi	BPC
Wendy F. Davidson, PhD	American National Red Cross	ONC
Peter Davies, PhD	Albert Einstein College of Medicine, Yeshiva University	BDCN, MDCN
Victor G. Davila-Roman, MD	Washington University School of Medicine	SRB
Anita Davis, PhD	Rhodes College	RPHB
Brian J. Davis, MD, PhD	Medical Innovations International, Inc	SRB
Carol M. Davis, EdD	University of Miami School of Medicine	GNS
Dena S. Davis, JD, PhD	Cleveland-Marshall College of Law	GNS
Frederick C. Davis, PhD	Northeastern University	IFCN
Jessica G. Davis, MD, PhD	Weill Medical College of Cornell University	GNS
Linda Lindsey Davis, PhD	University of Alabama at Birmingham	HOP
Lowell E. Davis, MD	Oregon Health and Science University	ENR
Marsha Davis, PhD	Vanderbilt University	HOP
Rowland H. Davis, PhD	University of California, Irvine	GNS
Sheila P. Davis, PhD	University of Mississippi Medical Center	HOP
Teresa A. Davis, PhD	Baylor College of Medicine	ENR
Thomas P. Davis, PhD	University of Arizona	BDCN, MDCN
Eda Davis-Butts, PhD	Oregon State University	BBBP
Daniel Davison, PhD	Bristol-Myers Squibb Company	BCS
Robin L. Davisson, PhD	University of Iowa	CVS
Dwight T. Davy, PhD	Case Western Reserve University	BPC
Kevin P. Davy, PhD	Virginia Polytechnic Institute and State University	PPS
Igor B. Dawid, MD	National Institute of Child Health and Human Development	MDCN
Yusoff M. Dawood, MB, MD	Morehouse School of Medicine	IFCN
Christopher A. Dawson, PhD	Medical College of Wisconsin	PPS
Glyn Dawson, MD, PhD	University of Chicago	MSD, HOP
Philip Dawson, PhD	Scripps Research Institute	BCS
Brian J. Day, PhD	National Jewish Medical and Research Center	AARR, ONC
Richard N. Day, PhD	University of Virginia Health System	CDF
Mariza De Andrade, PhD	Mayo Clinic	GNS
Michael D. De Bellis, MD	Duke University	BBBP
Jef Karel De Brabander, PhD	University of Texas	BPC
Pietro V. De Camilli, MD, PhD	Yale University School of Medicine	MDCN
Yves A. De Clerck, MD, PhD	American Association For Cancer Research	ONC
Alex De Crespigny, PhD	Massachusetts General Hospital	SRB
Louis J. De Felice, PhD	Vanderbilt University	MDCN
Suzanne M. De La Monte, MD	Rhode Island Hospital (Providence, RI)	ONC
Juan C. De La Torre, PhD	Scripps Research Institute	AARR, GNS
Sonsoles De Lacalle, MD, PhD	California State University, Los Angeles	IFCN
Eduard E. De Lange, MD	University of Virginia Health System	SRB
Dominick De Luca, PhD	Arizona Health Science Center	BDCN
Errol Bento De Souza, MD, PhD	Neurocrine Biosciences, Inc	MDCN
George T. De Titta, PhD	Hauptman-Woodward Medical Research Institute	BCS
Leyla De Toledo-Morrell, PhD	Rush-Presbyterian-St. Luke's Medical Center	BDCN
Geert J. De Vries, PhD	University of Massachusetts, Amherst	IFCN
Paul J. De Weer, MD, PhD	University of Pennsylvania	MDCN
Harriet De Wit, PhD	University of Chicago	BBBP
James De Yoreo, PhD	Lawrence Livermore National Laboratory	MSD
Samuel A. Deadwyler, PhD	Wake Forest University Health Sciences	IFCN, SRB

Antony M. Dean, PhD	University of Minnesota	IDM
David A. Dean, PhD	Northwestern University	BCS, GNS
Gregg A. Dean, DVM, PhD	North Carolina State University, Raleigh	AARR
Gregory C. Deangelis, PhD	Washington University School of Medicine	IFCN
Sara M. Debanne, PhD	Case Western Reserve University	HOP
Frederick C. Debeer, MD	University of Kentucky Medical Center	CVS
Asim Debnath, PhD	New York Blood Center	BPC
Amy L. Decatur, PhD	University of California, Berkeley	IDM
Edward L. Deci, PhD	University of Rochester	RPHB
Sandra L. Decker, PhD	International Longevity Center-USA	HOP
Peter C. Dedon, MD, PhD	Massachusetts Institute of Technology	ONC
Samir Deeb, PhD	University of Washington	IFCN
Dennis F. Deen, PhD	University of California, San Francisco	ONC
Donald B. Defranco, PhD	University of Pittsburgh School of Medicine	ENR
Sandra J. Degen, PhD	Children's Hospital Medical Center, Cincinnati	ONC
James V. Degregori, PhD	University of Colorado Health Sciences Center	IMM
Max L. Deinzer, PhD	Oregon State University	BPC
Katia Del Rio-Tsonis, PhD	Miami University	BDCN
Gregory J. Del Zoppo, MD	Scripps Research Institute	BDCN
Douglas L. Delahanty, PhD	Kent State University	BBBP
Alan M. Delamater, PhD	University of Miami School of Medicine	RPHB
Virginia Delaney-Black, MD, PhD	Wayne State University	BBBP
Oswaldo Delbono, MD, PhD	Wake Forest University Health Sciences	MSD
Arthur L. Delcher, PhD	The Institute of Genomic Research	GNS
Joyce A. Deleo, PhD	Dartmouth College	IFCN
Mary Ann A. D'elio, PhD	The CDM Group, Inc	RPHB
Charles Delisi, PhD	Boston University, Medical Campus	GNS
Maria Delivoria-Papadopoulos, MD	Drexel University	SRB
Charley Della Santina, MD, PhD	Johns Hopkins University	IFCN
Louis J. Dell'italia, MD	University of Alabama at Birmingham	CVS
Mario Delmar, MD, PhD	State University of New York Upstate Medical University	SRB
Ralph Delong, DDS, PhD	University of Minnesota, Twin Cities	MSD
Francois C. Delori, PhD	Schepens Eye Research Institute	MDCN
Scott L. Delp, PhD	Stanford University	SRB
Neal A. Deluca, PhD	University of Pittsburgh	IDM
Paul M. Deluca, PhD	University of Wisconsin, Madison	SRB
Joseph L. Demer, MD, PhD	University of California, Los Angeles	BDCN, IFCN
Lisa M. Demeter, MD	University of Rochester	AARR
Pamela K. Den Besten, DDS	University of California, San Francisco	MSD
Sally J. Denardo, MD	University of California School of Medicine	ONC
Cheri X. Deng, PhD	Case Western Reserve University	SRB
Chuxia Deng, PhD	National Institute of Diabetes and Digestive and Kidney Diseases	CDF
Donald R. Dengel, PhD	University of Minnesota	BBBP, RPHB
Susanne A. Denham, PhD	George Mason University	RPHB
Gunther Dennert, PhD	University of Southern California	PPS
Christopher T. Denny, MD	University of California, Los Angeles	ONC
Thomas N. Denny, PhD	University of Medicine and Dentistry of New Jersey	HEME
Paul Dent, PhD	Virginia Commonwealth University	ONC
Chris Denton, MD	Royal Free and University College Medical School	IMM
Channing J. Der, PhD	University of North Carolina, Chapel Hill	ONC
Carol Derby, PhD	New England Research Institutes, Inc	HOP
Stephen E. Derenzo, PhD	Lawrence Berkeley National Laboratory	SRB
Dusanka Deretic, PhD	University of New Mexico, Albuquerque	MDCN
Vojo P. Deretic, PhD	University of New Mexico	AARR, IDM
Zygmunt S. Derewenda, PhD	University of Virginia	BPC
Joseph L. Derisi,	University of California, San Francisco	GNS
Kurt H. Dermen, PhD	State University of New York at Buffalo	RPHB
Terence S. Dermody, MD	Vanderbilt University	IDM
Rik M. Derynck, PhD	University of California, San Francisco	CDF
Tejal A. Desai, PhD	Boston University, Charles River Campus	BDCN

Umesh R. Desai, PhD	Virginia Commonwealth University	CVS
Robert J. Deschenes, PhD	University of Iowa	BCS
Michael R. Descour, PhD	University of Arizona	CDF
Mohanish Deshmukh, PhD	University of North Carolina	BDCN
Gary V. Desir, MD	Yale University	MSD
Edward P. Desmond, PhD	California Department of Health Services	IDM
Christopher A. Desouza, PhD	University of Colorado	PPS
Claude Desplan, PhD	New York University	CDF
Mark D'esposito, MD	University of California, Berkeley	IFCN
Patricia A. Deuster, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	MSD
Curtis K. Deutsch, PhD	University of Massachusetts Medical School, Worcester	HOP
Dale G. Deutsch, PhD	State University of New York at Stony Brook	ONC
Clifford S. Deutschman, MD	University of Pennsylvania	SRB
Davangere P. Devanand, MBBS, MD	Columbia University College of Physicians and Surgeons	BBBP
Jennifer A. Dever, PhD	University of San Francisco	IDM
Anthony L. Devico, PhD	University of Maryland Biotechnology Institute	AARR
Michael J. Devlin, MD	New York State Psychiatric Institute	RPHB
Timothy J. Devoogd, PhD	Cornell University	IFCN
Michael D. Devous, PhD	University of Texas Southwestern Medical Center at Dallas	BDCN
George H. Devries, PhD	Chicago Association For Research and Education In Science	BDCN
Mary Amanda Dew, PhD	University of Pittsburgh	HOP, RPHB
Julius Pa Dewald, PhD	Northwestern University	MSD
Ken Dewar, PhD	McGill University	GNS
Larry A. Dewerd, PhD	University of Wisconsin, Madison	SRB
C. Forbes Dewey, PhD	Massachusetts Institute of Technology	SRB
William Dewey, PhD	University of California, San Francisco	ONC
Mark W. Dewhurst, DVM, PhD	Duke University Medical Center	ONC
Stephen Dewhurst, PhD	United States Public Health Service Public Advisory Groups	IDM
Douglas S. Dewitt, PhD	University of Texas Medical Branch at Galveston	BDCN
Nazneen N. Dewji, PhD	University of California	BDCN
Firdaus S. Dhabhar, PhD	Ohio State University Health Sciences Center	IMM
Danny N. Dhanasekaran, PhD	Temple University	ONC
Atam P. Dhawan, PhD	New Jersey Institute of Technology	MSD, SRB
Prasad Dhurjati, PhD	University of Delaware	IDM
Adrian M. Di Bisceglie, MD	St. Louis University	PPS
Jennifer Di Noia, PhD	Columbia University	RPHB
Betty A. Diamond, MD	Albert Einstein College of Medicine, Yeshiva University	IDM, IMM
Gill Diamond, PhD	University of Medicine and Dentistry of New Jersey	MSD
Michael P. Diamond, MD	Wayne State University	HOP
Daniel Diang, MD	Loma Linda University Medical Center	RPHB
Manuel O. Diaz, MD	Loyola University Medical Center	ONC
Ramon R. Diaz-Arrastia, MD, PhD	University of Texas Southwestern Medical Center at Dallas	PPS
Frank A. Dibianca, PhD	University of Tennessee	SRB
Thomas E. Dick, PhD	Case Western Reserve University School of Medicine	IFCN
Joseph Dickens, PhD	United States Department of Agriculture	IDM
Burton F. Dickey, MD	Keystone Symposia	BCS
Michael Dickinson, PhD	California Institute of Technology	IFCN
Richard B. Dickinson, PhD	University of Florida	IDM
Robert M. Dickson, PhD	Georgia Institute of Technology	BPC
William M. Dickson, PhD	University of South Carolina	HOP
Elizabeth Schmidt Didier, PhD	Tulane Regional Primate Research Center	AARR
Carol L. Dieckmann, PhD	University of Arizona	BCS
Robert F. Diegelmann, PhD	Virginia Commonwealth University	ENR, MSD, SRB
Anna M. Diehl, MD	Johns Hopkins University	ENR, NMS
Alan B. Diekman, PhD	University of Arkansas For Medical Sciences	AARR
W. Dalton Dietrich, PhD	University of Miami	BDCN
Russell J. Digate, PhD	University of Maryland Baltimore Professional School	IDM
Colleen K. Dilorio, PhD	Emory University	AARR, RPHB
Mirko Diksic, PhD	McGill University	BDCN
Cheryl L. Dileo, PhD	Temple University	RPHB

Angela K. Dillow, PhD	Georgia Institute of Technology	BPC
Daniel J. Dilorenzo, MD, PhD	Tulane University	MSD
Vasken Dilsizian, MD	University of Maryland Baltimore Professional School	SRB
Joseph X. Dimario, PhD	Chicago Medical School	MSD
Jian M. Ding, MD, PhD	East Carolina University	IFCN, MSD
Mingzhou Ding, PhD	Florida Atlantic University	MDCN
Xinxin Ding, PhD	Wadsworth Center	PPS
Jonathan D. Dinman, PhD	University of Maryland, College Park	BPC, IDM
Kenneth L. Dion, PhD	University of Toronto	RPHB
John F. Dipersio, MD, PhD	Washington University School of Medicine	ONC
Michael Dipersio, PhD	Albany Medical College	CDF
Janet A. Dipietro, PhD	Johns Hopkins University	BBBBP
Victor J. Dirita	University of Michigan at Ann Arbor	GNS, IDM
Dennis E. Discher, PhD	University of Pennsylvania	CVS, IDM
Thomas J. Dishion, PhD	Oregon Social Learning Center	RPHB
Mary L. Disis, MD	University of Washington	ONC
Clark W. Distelhorst, MD	Case Western Reserve University	ONC
William L. Ditto, PhD	University of Florida	IFCN, MDCN
Richard D. Dix, PhD	University of Arkansas For Medical Sciences	BDCN
C. Edward Dixon, PhD	University of Pittsburgh	BDCN
Dabney W. Dixon, PhD	Georgia State University	SRB
David A. Dixon, PhD	Battelle Pacific Northwest Laboratories	CDF
Kathleen Dixon, PhD	University of Cincinnati	ONC
Debra I. Diz, PhD	Wake Forest University Health Sciences	PPS
Paul Dizio, PhD	Brandeis University	IFCN
Darryl D. D'lima, MBBS, MD	Scripps Research Institute	MSD
Andrzej Dlugosz, MD	University of Michigan at Ann Arbor	MSD
Kathleen J. Doane, PhD	Northeastern Ohio Universities College of Medicine	BDCN
Rick T. Dobrowsky, PhD	University of Kansas	MDCN
Adrian S. Dobs, MD	Johns Hopkins University School of Medicine	AARR
William B. Dobyms, MD, PhD	University of Chicago	BDCN
Roberto Docampo, MD, PhD	University of Illinois	AARR
Nancy M. Docherty, PhD	Kent State University	BBBBP
Douglas W. Dockery, DSc, PhD	Harvard University School of Public Health	HOP
Susan R. Doctrow, PhD	Eukarion, Inc	MDCN
Tamara L. Doering, MD, PhD	Washington University	IDM
Mitchel J. Doktycz, PhD	Oak Ridge National Laboratory	GNS
Ray Dolan, MD	Institute of Neurology	IFCN
Bruce J. Dolnick, PhD	Roswell Park Cancer Institute	ONC
Frederick E. Domann, PhD	University of Iowa	ONC
Roberto Dominguez, PhD	Boston Biomedical Research Institute	CDF
Celene E. Domitrovich, PhD	Pennsylvania State University	RPHB
Robert W. Doms, MD, PhD	University of Pennsylvania	AARR
Robert M. Donahoe, PhD	Emory University	AARR
Henry J. Donahue, PhD	Pennsylvania State University	MSD
Richard P. Donahue, PhD	State University of New York	HOP
Sean Donahue, MD, PhD	Medical Technology and Innovations, Inc	BDCN
Thomas F. Donahue, PhD	Indiana University	IDM
William A. Donaldson, PhD	Marquette University	BPC
Lydia L. Doncarlos, PhD	Loyola University of Chicago	BDCN
Emanuel Donchin, PhD	University of South Florida	MDCN
Geri R. Donenberg, PhD	University of Illinois at Chicago	AARR
Cheng Dong, PhD	Pennsylvania State University	SRB
Jian-Yun Dong, MD, PhD	Medical University of South Carolina	BCS
Zigang Dong, DRPH, MD	University of Minnesota, Twin Cities	ONC
Ashok R. Dongre, PhD	Bristol-Myers Squibb Pharmacy Research Institute	BPC
Ruben O. Donis, PhD,	University of Nebraska	AARR
Isaac O. Donkor, PhD	University of Tennessee	AARR
David F. Donnelly, PhD	Yale University	PPS
John J. Donnelly, PhD	Merck Sharp and Dohme Research Laboratories	AARR

Joseph E. Donnelly, EdD	University of Kansas, Lawrence	RPHB
Albert D. Donnenberg, PhD	University of Pittsburgh School of Medicine	AARR, HEME
Dennis M. Donovan, PhD	University of Washington	RPHB
William Dooley, MD	University of Oklahoma Health Sciences Center	SRB
Murali Doraiswamy, MD	Duke University Medical Center	BDCN
Jonathan S. Dordick, PhD	Solidus Biosciences, Inc	BPC
Cheryl Kathleen Dorey, PhD	Schepens Eye Research Institute	CDF
Robert T. Dorr, MD, PhD	University of Arizona College of Medicine	ONC
Kenneth A. Dorshkind, PhD	University of California, Los Angeles	IMM
Barbara A. Doshier, PhD	University of California, Irvine	BBBBP
David E. Dostal, PhD	Texas A&M University	CVS, HEME
Wolfgang R. Dostmann, MD, PhD	University of Vermont	MDCN
Willa M. Doswell, PhD	University of Pittsburgh	HOP
G. Paolo Dotto, MD, PhD	University of Lausanne	MSD
Stephen B. Doty, PhD	Hospital For Special Surgery	MSD
Lynn Doucette-Stamm, PhD	Genome Therapeutics Corporation	GNS
Jennifer A. Doudna, PhD	University of California, Berkeley	BPC
Michael J. Dougherty, PhD	Hampden-Sydney College	GNS
Patrick M. Dougherty, PhD	University of Texas	IFCN
Steven D. Douglas, MD	Children's Hospital of Philadelphia	AARR
Allison J. Doupe, MD, PhD	University of California	IFCN
Edwin L. Dove, PhD	University of Iowa	SRB
Norman J. Dovichi, PhD	University of Washington	BPC, GNS
John F. Dovidio, PhD	Colgate University	RPHB
Glenna Dowling, PhD	Goldman Institute on Aging	HOP
Robert D. Dowling, MD	University of Louisville	SRB
Geraldine A. Downey, PhD	Columbia University	RPHB
Kenneth H. Downing, PhD	Lawrence Berkeley National Laboratory	BPC, CDF
Stephen J. Doxsey, PhD	University of Massachusetts Medical School, Worcester	CDF
Michael P. Doyle, PhD	Muritech	IDM
Terrence W. Doyle, PhD	Vion Pharmaceuticals, Inc	BPC
John Drace, MD	Palo Alto Institute For Research and Education	MSD
Robert E. Drake, MD, PhD	Dartmouth College	BBBBP
Edward A. Dratz, PhD	Montana State University, Bozeman	BPC, CDF
Dennis G. Drescher, PhD	Wayne State University	IFCN
Gregory R. Dressler	University of Michigan Medical School	MSD
Cheryl F. Dreyfus, PhD	University of Medicine and Dentistry of New Jersey	MDCN
Marie J. Driever, PhD	Providence Portland Medical Center	HOP
Norman R. Drinkwater, PhD	McArdle Laboratory For Cancer Research	ONC
Monica A. Driscoll, MD, PhD	Rutgers University	MDCN
David J. Drobos, PhD	H. Lee Moffitt Cancer Center and Research Institute	BBBBP
Gary P. Drobny, PhD	University of Washington	BPC, MDCN
Michael D. Drory, PhD	Spire Corporation	MSD
David G. Drubin, PhD	University of California	CDF
Iain A. Drummond, PhD	Massachusetts General Hospital	MSD
James L. Drummond, DDS, PhD	University of Illinois at Chicago	MSD
Glenn Dryhurst, PhD	University of Oklahoma	PPS
William L. Duax, PhD	Hauptman-Woodward Medical Research Institute	BPC
Patricia M. Dubbert, PhD	Veterans Affairs Medical Center	RPHB
Inna Dubchak, PhD	Lawrence Berkeley National Laboratory	BPC
William V. Dube, PhD	University of Massachusetts Medical School, Worcester	BBBBP
Louis Dubeau, MD, PhD	University of Southern California	ONC
Thomas W. Dubensky, PhD	Cerus Corporation	IDM
Paul R. Duberstein, PhD	University of Rochester	BBBBP
Margarita L. Dubocovich, PhD	Northwestern University	IFCN
David J. Duchamp, PhD	Pharmacia and Upjohn, Inc	BPC
Colin S. Duckett, PhD	University of Michigan at Ann Arbor	CDF
Terry W. Du-Clos, MD, PhD	Biomedical Research Institute of New Mexico	NMS
Francis Edward Dudek, PhD	Colorado State University	IFCN
Jaquelin P. Dudley, PhD	University of Texas at Austin	IDM

Andre Duerinckx, MD, PhD	University of Texas Southwestern Medical Center	SRB
Jeff L. Duerk, PhD	Case Western Reserve University	SRB
Penelope H. Duerksen-Hughes, PhD	Loma Linda University	IDM
Nicholas S. Duesbery, PhD	Van Andel Research Institute	IDM
Erin M. Duffy, PhD	Yale University	IDM
Frank H. Duffy, MD	Children's Hospital, Boston	BBBP
Laura L. Dugan, MD	Washington University	MDCN
Daniel A. Dumesic, MD	Mayo Clinic, Rochester	NMS
Joshua L. Dunaief, MD, PhD	University of Pennsylvania	BDCN
Sandra B. Dunbar, PhD	Emory University	HOP
Gary Duncan, DDS, PhD	University of Montreal	IFCN
Ian W. Duncan, PhD	Washington University	GNS
James S. Duncan, PhD	Yale University	SRB
Marilyn J. Duncan, PhD	University of Kentucky	IFCN
David D. Dunigan, PhD	University of South Florida	IDM
A. Keith Dunker, PhD	Indiana University-Purdue University, Indianapolis	BPC
John T. Dunlosky, PhD	University of North Carolina, Chapel Hill	BBBP
Adrian J. Dunn, PhD	Louisiana State University Medical Center	IFCN
Andrea L. Dunn, PhD	Cooper Institute	RPHB
Andrew K. Dunn, PhD	Massachusetts General Hospital	BDCN
Ben M. Dunn, PhD	University of Florida	AARR, BPC
John J. Dunn, PhD	Brookhaven Science Association-Brookhaven Laboratory	GNS
Julie E. Dunn, PhD	New England Research Institutes, Inc	HOP
Michael G. Dunn, DDS, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	MSD
Michelle A. Dunn, PhD	Albert Einstein College of Medicine, Yeshiva University	BBBP
Peter Dunn, PhD	Purdue University	IDM
Wesley A. Dunnick, PhD	University of Michigan	IMM
Pete W. Dunten	Roche Bioscience, Inc	BPC
Gary Durack	ICYT Visionary Bioscience	CVS, HEME
Mark Durand, PhD	State University of New York at Albany	BBBP
Paul T. Durbin, PhD	University of Delaware	GNS
Paul J. Durda, PhD	Cytocure, LLC	IMM
Donald L. Durden, MD, PhD	University of Indiana	ONC
Jack Durell, MD	Deltametrix	BBBP
William K. Durfee, PhD	Systems Technology, Inc	MSD
John T. Durkin	Cephalon, Inc	MDCN
Martina Durner, MD	Columbia University Health Science Center	BDCN
Robert J. Duronio, PhD	University of North Carolina	CDF
Michael L. Dustin, DSc, MD	New York University School of Medicine	BPC, IMM
Harry P. Duval, PhD	University of Georgia	HOP
Jeff Duyn, PhD	National Institute of Neurological Disorders and Stroke	MDCN
Nejat A. Duzgunes, PhD	University of The Pacific, Stockton	BCS
Steven I. Dworkin, PhD	University of North Carolina, Wilmington	IFCN
Samuel J. Dwyer, PhD	University of Virginia	SRB
David W. Dyer, PhD	Oklahoma University Health Sciences Center	IDM
Daniel E. Dykhuizen, PhD	University of Stony Brook	IDM
Christine C. Dykstra, PhD	Auburn University	IDM
Martin Dym, PhD	Georgetown University	ENR
David J. Earnest, PhD	Texas A&M University Health Science Center	IFCN
Joanne L. Earp, PhD, ScD	University of North Carolina, Chapel Hill	BBBP
Janet F. Eary, MD	University of Washington Medical Center	SRB
Ruth Anne Eatock, PhD	Baylor College of Medicine	IFCN
Katheryn A. Eaton, DVM, PhD	Ohio State University	IDM
Sandra S. Eaton, PhD	University of Denver	BPC
William W. Eaton, PhD	Johns Hopkins University	HOP
Manuchair Ebadi, PhD	Association of American Indian Physicians	PPS
Emad Ebbini, PhD	University of Minnesota	SRB
Jim H. Eberwine, PhD	University of Pennsylvania School of Medicine	MDCN
Timothy J. Ebner, MD, PhD	University of Minnesota	IFCN
William R. Eckberg, PhD	Howard University	CDF, IMM

William C. Eckelman, PhD	Clinical Center, National Institutes of Health	SRB
Kristin A. Eckert, PhD	Pennsylvania State University Hershey Medical Center	GNS
James S. Economou, MD, PhD	University of California, Los Angeles	ONC
Henry F. Edelhauser, PhD	Emory University	MDCN
David J. Edell, PhD	Innersea Technology	MSD
Winfried Edelmann, PhD	Albert Einstein College of Medicine, Yeshiva University	ONC
Isaac Edery, PhD	Rutgers University	IFCN
Dale M. Edgar, MD, PhD	Stanford University	IFCN
V. Reggie Edgerton, PhD	University of California, Los Angeles	MSD
Michael A. Edidin, PhD	Johns Hopkins University	BPC
Marwood N. Ediger, PhD	Food and Drug Administration	MSD
Jack D. Edinger, PhD	Duke University	MSD
Thomas D. Edlind, PhD	Drexel University	AARR, IDM
Dale E. Edmondson, PhD	Emory University	BPC
Clark M. Edson, PhD	Radiation Monitoring Devices, Inc	CDF
Jeremy S. Edwards, PhD	University of Delaware	IDM
John C. Edwards, MD, PhD	St. Louis Veterans Affairs Medical Center	MSD
Marilyn S. Edwards, PhD	University of Texas at Houston Medical School	HOP
Scott V. Edwards, PhD	University of Washington	BBBP
Igor R. Efimov, PhD	Case Western Reserve University	CVS
Harry Efstathiadis, PhD	State University of New York at Albany	ONC, SRB
Kelly J. Egan, PhD	Talaria, Inc	RPHB
Marie E. Egan, MD	Yale University School of Medicine	GNS
Susan M. Egan, PhD	University of Kansas, Lawrence	IDM
Leonard E. Egede, MD	Medical University of South Carolina	HOP, RPHB
Tom T. Egelhoff, PhD	Case Western Reserve University	CDF
Edward H. Egelman, PhD	University of Virginia	CDF
Richard L. Ehman, MD	Mayo Clinic, Rochester	SRB
Michael Ehrenstein, PhD	Arthur Stanley House	IMM
Barbara E. Ehrlich, PhD	Yale University School of Medicine	MDCN
H. Paul Ehrlich, PhD	Pennsylvania State University	MSD, SRB
Michelle E. Ehrlich, MD	Thomas Jefferson University	BDCN
David A. Ehrmann, MD	University of Chicago	ENR
Ali A. Ehsani, MD, PhD	Washington University School of Medicine	CVS
Gary A. Eiceman, PhD	New Mexico State University	MDCN
Eric Eich, PhD	University of British Columbia	BBBP
Howard B. Eichenbaum, PhD	Boston University, Medical Campus	BDCN, IFCN
Thomas H. Eickbush, PhD	University of Rochester	GNS
Lee E. Eiden, PhD	National Institute of Mental Health	MDCN
Rina Das Eiden, PhD	State University of New York	BBBP, RPHB
Olof Einarsdottir, PhD	University of California, Santa Cruz	BPC
Howard J. Eisen, MD	Temple University	CDF, PPS, SRB
Marvin B. Eisen, PhD	Urban Institute	RPHB
George S. Eisenbarth, MD, PhD	University of Colorado	IMM
David S. Eisenberg, PhD	University of California, Los Angeles	BPC
Laurie S. Eisenberg, PhD	House Ear Institute	BBBP
Nancy H. Eisenberg, PhD	Arizona State University	IFCN
Robert N. Eisenman, PhD	Fred Hutchinson Cancer Research Center	CDF
Edward Eisenstein, PhD	Gordon Research Conferences	BCS
David J. Ekerdt, PhD	University of Kansas	BBBP
Mahmoud H. El Kouni, PhD	University of Alabama at Birmingham	AARR
Samir S. El-Dahr, MD	Tulane University	MSD
Wafik S. El-Deiry, MD, PhD	University of Pennsylvania School of Medicine	ONC
David E. Elder, MB	Hospital of The University of Pennsylvania	ONC
James T. Elder, MD, PhD	University of Michigan at Ann Arbor	IMM, MSD
Jennifer H. Elder, PhD	University of Florida	BBBP
John H. Elder, PhD	Scripps Research Institute	AARR
John H. Eldridge, PhD	Lederle-Praxis Biologicals	AARR
Esam E. El-Fakahany, PhD	University of Minnesota	MDCN
Lisa A. Elferink, PhD	University of Texas Medical Branch	MDCN

Elaine A. Elion, PhD	Harvard University Medical School	CDF
Jennifer H. Elisseoff	Johns Hopkins University	BDCN, MSD
Karen L. Elkins, PhD	Food and Drug Administration	AARR, IDM
Jonathan M. Ellen, MD	Johns Hopkins University School of Medicine	AARR
Lora H. Ellenson, MD	Weill Medical College of Cornell University	ONC
Lucille S. Eller, PhD	Rutgers University	MSD
Andrew D. Ellington, PhD	University of Texas at Austin	AARR
Dawn M. Elliott, PhD	University of Pennsylvania	PPS
Deni Elliott, Edd	University of Montana	HOP
Rosemary W. Elliott, PhD	Roswell Park Cancer Institute	GNS
Darin Ellis, PhD	Wayne State University	BBBP
Lynda B. M. Ellis, PhD	University of Minnesota	GNS
Paul D. Ellis, PhD	Battelle Pacific Northwest Laboratories	BPC
David R. Elmaleh, PhD	Massachusetts General Hospital	BDCN, SRB
Greg Elmer, PhD	University of Maryland Baltimore Professional School	BBBP
Craig A. Elmets, MD	University of Alabama at Birmingham	ONC
William F. Elmquist, PhD	University of Minnesota, Twin Cities	CVS, ONC
Keith S. Elmslie, PhD	Tulane University	MDCN
Hashem B. El-Serag, MD	Baylor College of Medicine	HOP
Ann E. Elsner, PhD	Schepens Eye Research Institute	BDCN
Elliot L. Elson, PhD	Invivo Sciences, LLC	MSD
John D. Elsworth, PhD	Yale University	BDCN
Linda L. Emanuel, MD, PhD	Northwestern University	HOP
Stanislav Emelianov, PhD	University of Michigan at Ann Arbor	SRB
Michael Emerman, PhD	Fred Hutchinson Cancer Research Center	AARR
Beverly M. Emerson, PhD	Gordon Research Conferences	BCS
Stephen G. Emerson, MD, PhD	University of Pennsylvania	CDF
Charles F. Emery, PhD	Ohio State University	RPHB
Ronald B. Emeson, PhD	Vanderbilt University	MDCN
Karen M. Emmons, PhD	Dana-Farber Cancer Institute	HOP
Drew Endy, PhD	Massachusetts Institute of Technology	BPC
Richard I. Enelow, MD	Yale University	IDM
John H. Enemark, PhD	University of Arizona	BPC
Charles Engel, MD	Walter Reed Army Medical Center	RPHB
Joanne N. Engel, MD, PhD	University of California, San Francisco	IDM
Alan N. Engelman, PhD	Dana-Farber Cancer Institute	AARR
S. W. Englander, PhD	University of Pennsylvania	BPC
Kevin B. Englehart, PhD	University of New Brunswick	MSD
Edgar G. Engleman, MD, PhD	Stanford University	IMM
Paul T. Englund, PhD	Johns Hopkins University	IDM
Jack R. Engelsberg, PhD	Washington University	MSD
Paul L. Enright, MD	University of Arizona	HOP
Margaret E. Ensminger, PhD	Johns Hopkins University	RPHB
Richard Epan, PhD	Mcmaster University	CVS
Janan T. Eppig, PhD	Jackson Laboratory	GNS
Alan L. Epstein, MD, PhD	Cancer Therapeutics Laboratories, Inc	ONC
Henry F. Epstein, MD	Baylor College of Medicine	CDF
Joel Epstein, PhD	Missouri Institute of Mental Health	BBBP
Paul N. Epstein, PhD	University of Louisville	BCS
Emily J. Erbeling, MD	Johns Hopkins University	CDF
Deborah R. Erickson, MD	Pennsylvania State University Hershey Medical Center	MSD
Harold P. Erickson, PhD	Duke University Medical Center	CDF
Kent L. Erickson, PhD	University of California, Davis	ONC
Leonard C. Erickson, PhD	Indiana University Cancer Center	GNS
Dorothy A. Erie, PhD	University of North Carolina, Chapel Hill	BPC
Judith A. Erlen, PhD	University of Pittsburgh	AARR, HOP
Joseph S. Erlichman, PhD	St. Lawrence University	PPS
Joel D. Ernst, MD	New York University School of Medicine	GNS, IDM
Peter B. Ernst, DVM, PhD	University of Virginia, Digestive Health Center	IMM
Hildegund C. Ertl, MD	Wistar Institute	AARR

Alice Erwin, PhD	Seattle Biomedical Research Institute	IDM
Michael A. Escamilla, MD	University of Texas Health Science Center at San Antonio	BBBBP
Thomas R. Esch, PhD	National Institute of Allergy and Infectious Diseases	IMM
Rinat O. Esenaliev, PhD	University of Texas Medical Branch	SRB
Carol Y. Espy-Wilson, PhD	Boston University, Charles River Campus	BBBBP
Karyn A. Esser, PhD	University of Illinois at Chicago	MSD
Victoria Esses, PhD	University of Western Ontario	RPHB
Gregory K. Essick, DDS, PhD	University of North Carolina, Chapel Hill	IFCN
Leon Esterowitz, PhD	National Science Foundation	SRB
Mary K. Estes, PhD	Baylor College of Medicine	PPS
Alvaro G. Estevez, PhD	University of Alabama	BDCN
Steven S. Estus, PhD	University of Kentucky	MDCN
Anne M. Etgen, PhD	Yeshiva University	IFCN
Ralph Etienne-Cummings, PhD	University of Maryland	BBBBP
Gerard I. Evan, PhD	University of California, San Francisco	BCS, ONC
Alan C. Evans, PhD	McGill University	MDCN
David R. Evans, PhD	Wayne State University	BCS
Denis A. Evans, MD	Rush-Presbyterian-St. Luke's Medical Center	HOP
Gregory R. Evans, MD, PhD	University of California, Irvine	MDCN
Sydney M. Evans, DVM, VMD	University of Pennsylvania	ONC
Sylvia M. Evans, PhD	University of California, San Diego	CDF
Thomas G. Evans, MD	Vical Incorporated	AARR
Valarie J. Evans,	Tidewater Community College	IMM
William E. Evans, PhD	St. Jude Children's Research Hospital	HOP
William J. Evans, PhD	University of Puerto Rico, Mayaguez	HOP
Jeffrey L. Evelhoch, PhD	Experimental Medicine, Pharmacia	SRB
Erich Carr Everbach, PhD	Swarthmore College	NMS
Eric T. Everett, PhD	Indiana University-Purdue University, Indianapolis	MSD
Douglas C. Ewbank, PhD	University of Pennsylvania	HOP
Mark E. Ewen, PhD	Dana-Farber Cancer Institute	CDF
Warren J. Ewens, PhD	University of Pennsylvania	GNS
Andrew G. Ewing, PhD	Pennsylvania State University, University Park	GNS
Job J. Faber, MD, PhD	Oregon Health and Science University	SRB
Tracy L. Faber, PhD	Emory University Hospital	SRB
Monica Fabiani, PhD	University of Illinois at Urbana-Champaign	SRB
Pam R. Factor-Litvak, PhD	Columbia University	BBBBP
Debra A. Fadool, PhD	Florida State University	MDCN, MSD
Susan E. Fahrbach, PhD	University of Illinois at Urbana-Champaign	IFCN
Richard Fair, PhD	Duke University	BPC
Robert L. Fairchild, PhD	Cleveland Clinic Foundation	SRB
Richard Fairley, PhD	OGI School of Science and Engineering	BPC
Neal F. Fairweather, PhD	Imperial College	AARR
Steve Fakhrazadeh, MD, PhD	University of Pennsylvania	CVS, MSD
Vincent Falanga, MD	Roger Williams Hospital	MSD
Charles N. Falany, PhD	University of Alabama at Birmingham	CVS
Erik Falck-Pedersen, PhD	Weill Medical College of Cornell University	IDM
Catherine T. Falk, PhD	New York Blood Center	GNS
Ronald J. Falk, MD	University of North Carolina, Chapel Hill	PPS
Margaret D. Fallin, PhD	Johns Hopkins University	HOP
Ann M. Fallon, PhD	University of Minnesota	IDM
Justin R. Fallon, PhD	Brown University	MDCN
Michael B. Fallon, MD	University of Alabama at Birmingham	PPS
Louis D. Falo, MD, PhD	University of Pittsburgh School of Medicine	AARR
Babajide O. Familoni, PhD	University of Memphis	SRB
Hung Y. Fan, PhD	University of California, Irvine	IDM
Z. Hugh Fan, PhD	University of Florida	BPC
Francis G. Fang, PhD	Eisai Research Institute	BPC
Michael S. Fanselow, PhD	University of California, Los Angeles	RPHB
Mary C. Farach-Carson, PhD	University of Delaware	MSD
Donna L. Farber, PhD	University of Maryland, College Park	IMM

Harrison W. Farber, MD	Boston University School of Medicine	PPS
Amerigo Farina, PhD	University of Connecticut	RPHB
Gregory W. Faris, PhD	SRI International	SRB
Jerry M. Farley, PhD	University of Mississippi Medical Center	MDCN
Robert A. Farley, PhD	University of Southern California	BPC
Allan G. Farman, DSc	University of Louisville	MSD
Stephen R. Farmer, PhD	Keystone Symposia	NMS
David Farquhar, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Marilyn G. Farquhar, PhD	University of California	CDF
Stephen J. Farr, PhD	Aradigm Corporation	BPC
Michael A. Farrar, PhD	University of Minnesota, Twin Cities	IMM
David H. Farrell, PhD	Barlow Scientific, Inc	CVS
Jay P. Farrell, PhD	University of Pennsylvania	AARR
David N. Fass, PhD	Mayo Clinic, Rochester	HEME
Reza A. Fassihi, PhD	Temple University	BCS
Loren D. Fast, PhD	Viral Inactivation Technologies	HEME
Michael T. Fasullo, PhD	Ordway Research Institute, Inc	ONC
S. Hossein Fatemi, MD, PhD	University of Minnesota Medical School	BBBBP, BDCN
Panos P. Fatouros, PhD	Medical College of Virginia	BDCN
John A. Faulkner, PhD	University of Michigan	MSD
Mark L. Faupel, PhD	Biofield Corporation	SRB
Nelson Fausto, MD	University of Washington	ONC
Newton C. Fawcett, PhD	University of Southern Mississippi	BCS
Jean E. Feagin, PhD	Seattle Biomedical Research Institute	IDM
Howard J. Federoff, MD, PhD	University of Rochester	BDCN
Martha J. Fedor, PhD	Scripps Research Institute	BCS
Nina Fedoroff, PhD	Pennsylvania State University	GNS
Norah C. Feeny, PhD	Case Western Reserve University	BBBBP
Andrew S. Feigin, MD	North Shore-Long Island Jewish Research Institute	BDCN, RPHB
Edward Feil, PhD	Oregon Research Institute	BBBBP
Deborah A. Fein, PhD	University of Connecticut, Storrs	BBBBP
Andrew P. Feinberg, MD, PhD	Johns Hopkins University	ONC
Eleanor Feingold, PhD	University of Pittsburgh	GNS
Douglas L. Feinstein, PhD	University of Illinois at Chicago	BDCN
Marc B. Feinstein, MD	Sloan-Kettering Institute For Cancer Research	HOP
Stuart C. Feinstein, PhD	University of California, Santa Barbara	MDCN
Michael G. Feiss, PhD	University of Iowa	IDM
Gilbert T. Feke, PhD	Schepens Eye Research Institute	CDF
Robert B. Felder, MD	University of Iowa	BBBBP
Dale S. Feldman, PhD	University of Alabama at Birmingham	MSD
Laurie Feldman, PhD	State University of New York at Albany	BBBBP
Steven R. Feldman, MD, PhD	Wake Forest University Health Sciences	RPHB
Ernest J. Feleppa, PhD	Riverside Research Institute	SRB
Philip L. Felgner, PhD	Immpor Therapeutics	BCS
Carolyn A. Felix, MD	Children's Hospital of Philadelphia	ONC
Joel P. Felmler, PhD	Mayo Clinic, Rochester	SRB
Diane Felsen, PhD	Weill Medical College of Cornell University	MSD
A. Mark Fendrick, MD	University of Michigan	HOP
Ziding Feng, PhD	Fred Hutchinson Cancer Research Center	HOP
Glenn J. Fennelly, MD	Jacobi Medical Center	AARR
J. Christopher Fenno, PhD	University of Michigan at Ann Arbor	MSD
John J. Ferbas, PhD	Amgen, Inc	AARR, IMM
Thomas A. Ferguson, OD, PhD	Washington University School of Medicine	BPC, CDF
Daniel J. Fernandes, DSc, PhD	Medical University of South Carolina	ONC
Jose R. Fernandez, PhD	University of Alabama at Birmingham	HOP
Julio M. Fernandez, PhD	Columbia University	BPC
Maria E. Fernandez-Esquer, PhD	University of Texas Health Science Center, Houston	AARR
Assiamira Ferrara, MD, PhD	Kaiser Foundation Research Institute	HOP
Katherine W. Ferrara, PhD	University of California, Davis	SRB
Thomas C. Ferree, PhD	University of California	MDCN

Nicholas R. Ferreri, PhD	New York Medical College	MSD
Thomas E. Ferrin, PhD	University of California, San Francisco	SRB
Daniel P. Ferris, PhD	University of Michigan	MSD
Soldano Ferrone, MD, PhD	Roswell Park Cancer Institute	ONC
David L. Ferster, PhD	Northwestern University	IFCN
John H. Fessler, PhD	University of California, Los Angeles	BCS
Lawrence L. Feth, PhD	Ohio State University	IFCN
Jacquelyn S. Fetrow, PhD	Geneformatics, Inc	BPC
Donald E. Fetterolf, MD	Highmark Inc,	SRB
Robert Fettiplace, PhD	University of Wisconsin, Madison	IFCN
Thomas A. Ficht, PhD	Texas A&M University	IDM
James W. Fickett, PhD	GlaxoSmithKline, Inc	GNS
Paul L. Fidel, PhD	Louisiana State University Health Sciences Center, New Orleans	AARR, MSD
David A. Fidock, PhD	Yeshiva University	IDM
Edelle C. Field-Fote, PhD	University of Miami School of Medicine	MSD
Gregg B. Fields, PhD	Florida Atlantic University	AARR, MSD
Lanny Fields, PhD	College of Staten Island, City University of New York	BBBBP
R. Douglas, Fields, PhD	National Institute of Child Health and Human Development	MDCN
Stanley H. Fields, PhD	University of Washington	BCS
Stephen E. Fienberg, PhD	Carnegie Mellon University	HOP
Carol Fierke, PhD	University of Michigan	BPC
Julie A. Fiez, PhD	University of Pittsburgh	IFCN
John R. Fike, PhD	University of California, San Francisco	ONC
Erol Fikrig, MD	Yale University	IDM
Marie T. Filbin, PhD	Hunter College	IFCN
Michael D. Fill, PhD	Loyola University of Chicago	MDCN
Scott G. Filler, MD	Harbor-UCLA Research and Education Institute	AARR
Brian K. Finch, PhD	Rand Corporation	HOP
Paul L. Fine, MD, PhD	Baylor College of Medicine	HOP
Richard N. Fine, MD	State University of New York at Stony Brook	AARR
Naomi S. Fineberg, PhD	Indiana University School of Medicine	CVS
Janet S. Finer-Moore, PhD	University of California, San Francisco	BPC
Richard Fink	Massachusetts Institute of Technology	IDM
Steven M. Finkbeiner, MD, PhD	J. David Gladstone Institutes	MDCN
James H. Finke, PhD	Cleveland Clinic Foundation	ONC
Deborah Finkel, PhD	Indiana University	HOP
Jacob N. Finkelstein, PhD	University of Rochester	PPS
Warren H. Finlay, PhD	University of Alberta	BCS
John W. Finley, PhD	United States Department of Agriculture	NMS
Scott Finley, MD	Johns Hopkins University	SRB
Arthur L. Finn, MD	University of North Carolina, Chapel Hill	CDF
Richard H. Finnell, PhD	Texas A&M University	BDCN
Jack W. Finney, PhD	Virginia Polytechnic Institute and State University	RPHB
Marta L. Fiorotto, PhD	Baylor College of Medicine	ENR
Bonnie L. Firestein, PhD	Rutgers University	MDCN
Gary S. Firestein, MD	USCD School of Medicine	BPC, IMM
Itzhak Fischer, PhD	Drexel University	BDCN, MSD
Robert F. Fischetti, PhD	Argonne National Laboratory	BCS
Vincent A. Fischetti, PhD	The Rockefeller University	IDM
James C. Fishbein, PhD	University of Maryland, Baltimore County	ONC
David E. Fisher, MD, PhD	Dana-Farber Cancer Institute	CDF
Dennis G. Fisher, PhD	California State University, Long Beach	AARR
Kimberly V. Fisher, PhD	Northwestern University	HOP
Nancy L. Fisher, MD	University of Washington	GNS
Philip A. Fisher, PhD	Oregon Social Learning Center, Inc	HOP
Shannon Fisher, MD, PhD	Johns Hopkins University School of Medicine	CDF
Stephen K. Fisher, PhD	University of Michigan at Ann Arbor	MDCN
Wayne W. Fisher, PhD	Kennedy Krieger Research Institute, Inc	BBBBP
William P. Fisher, PhD	Metametrics, Inc	IFCN
Paul A. Fishman, PhD	Center For Health Studies	HOP

Arthur D. Fisk, PhD	Georgia Institute of Technology	BBBBP
John G. Fitz, MD	University of Colorado Health Sciences Center	PPS
Hiram E. Fitzgerald, PhD	Michigan State University	HOP
James T. Fitzgerald, PhD	University of Michigan	BBBBP, RPHB
Tracy Fitzgerald, PhD	University of Maryland, College Park	IFCN
Marian L. Fitzgibbon, PhD	Northwestern University Medical School	BBBBP
Maryann Fitzmaurice, MD, PhD	Case Western Reserve University	SRB
J. Michael Fitzpatrick, PhD	Vanderbilt University	SRB
Paul F. Fitzpatrick, PhD	Texas A&M University Health Science Center	BPC, MDCN
Michael Flahive, PhD	Saint Xavier University	BBBBP
Martin F. Flajnik, PhD	University of Maryland Baltimore Professional School	IDM
John Flanagan, PhD	University of Toronto	CDF
John G. Flanagan, PhD	Harvard University Medical School	MDCN
John M. Flanagan, PhD	Pennsylvania State University Hershey Medical Center	BPC
John Randall Flanagan, PhD	Queen's University	IFCN
John G. Flannery, PhD	University of California, Berkeley	BCS, CDF
Richard A. Flavell, PhD	Yale University	NMS
Jodi A. Flaws, PhD	University of Maryland Baltimore Professional School	PPS
James C. Fleet, PhD	Purdue University	IMM
Katherine M. Flegal, PhD	University of California, Berkeley	HOP
Robert D. Fleischmann, PhD	Institute For Genomic Research	GNS
David Fleisher, PhD	University of Michigan at Ann Arbor	CVS
Suzanne M. Fleiszig, Od, PhD	University of California, Berkeley	IDM
Braden C. Fleming, PhD	Rhode Island Hospital (Providence, RI)	MSD
Karen G. Fleming, PhD	Johns Hopkins University	BCS
Lora E. Fleming, MD, PhD	University of Miami School of Medicine	HOP
Erik K. Flemington, PhD	Tulane University	AARR
Courtney V. Fletcher, PhD	University of Colorado Health Sciences Center	AARR
Mary A. Fletcher, PhD	University of Miami School of Medicine	AARR
Robert J. Fletterick, PhD	University of California, San Francisco	CDF
Steven J. Fliesler, PhD	St. Louis University	CDF
Patrick M. Flood, MD, PhD	University of North Carolina, Chapel Hill	AARR, IMM, MSD
Harvey M. Florman, PhD	University of Massachusetts Medical School, Worcester	NMS
Carey E. Floyd, MD, PhD	Duke University Medical Center	SRB
Michele M. Fluck, PhD	Michigan State University	IDM
Brian S. Flynn, DSc, PhD	University of Vermont	HOP
Daniel C. Flynn, MD, PhD	Protea Biosciences, Inc	ONC
Edward R. Flynn, PhD	Senior Scientific	SRB
Joanne L. Flynn, PhD	Keystone Symposia	IDM, IMM
Michael J. Flynn, PhD	Henry Ford Health Sciences Center	SRB
Robert C. Foehring, PhD	University of Tennessee Health Science Center	MSD
Kevin E. Fogarty, PhD	University of Massachusetts Medical School	CDF
Agnes B. Fogo, MD	Vanderbilt University	CVS
W. Dennis Foley, MD	Medical College of Wisconsin Doyno Hospital	SRB
Charles L. Folk, PhD	Villanova University	BBBBP
William R. Folk, PhD	University of Missouri	IDM
Marshal F. Folstein, MD	New England Medical Center Hospitals	HOP
Susan E. Folstein, MD	New England Medical Center Hospitals	GNS
Yuman Fong, MD	Sloan-Kettering Institute For Cancer Research	ONC
Barbara R. Foorman, PhD	University of Texas Health Science Center, Houston	BBBBP
Douglass J. Forbes, PhD	University of California, San Diego	CDF
Jeffrey G. Forbes, PhD	National Institute of Arthritis and Musculoskeletal and Skin Diseases	CDF
Byron D. Ford, PhD	Morehouse School of Medicine	CDF
Judith M. Ford, PhD	University of California, Los Angeles	BDCN
Kathleen Ford, PhD	University of Michigan at Ann Arbor	AARR
Marvella E. Ford, PhD	Baylor College of Medicine	RPHB
Michael D. Forgac, PhD	Gordon Research Conferences	BPC
Douglas Forrest, PhD	Mount Sinai School of Medicine	IFCN
Stephen R. Forrest, PhD	Princeton University	BPC
Hubert V. Forster, PhD	Medical College of Wisconsin	IFCN

Richard H. Fortinsky, PhD	University of Connecticut School of Medicine and Dentistry	HOP
John C. Fortney, PhD	University of Arkansas For Medical Sciences	RPHB
Norman Fost, MD	University of Wisconsin Hospital	HOP, IMM
Gary D. Foster, PhD	University of Pennsylvania	BBBBP, RPHB
Kenneth R. Foster, PhD	University of Pennsylvania	HOP
Morris W. Foster, PhD	University of Oklahoma	GNS
Norman L. Foster, MD	University of Michigan at Ann Arbor	BDCN
Patricia L. Foster, PhD	Indiana University	IDM
Thomas C. Foster, PhD	University of Florida	BDCN, IFCN
Thomas H. Foster, PhD	University of Rochester	ONC, SRB
Ashraf F. Fouad, DDS	University of Connecticut School of Medicine and Dentistry	MSD
Anne L. Foundas, MD	Tulane University	BBBBP
Steven K. Founq, MD	Stanford University	IDM
Velia M. Fowler, PhD	Gordon Research Conferences	CDF
J. Brian Fowlkes, PhD	National Institute of Allergy and Infectious Diseases	SRB
Bernard A. Fox, PhD	Providence Portland Medical Center	ONC
Brian G. Fox, PhD	University of Wisconsin	BPC
David A. Fox, MD	University of Michigan	IMM
Howard S. Fox, MD, PhD	Scripps Research Institute	AARR
Ira J. Fox, MD	University of Nebraska Medical Center	SRB
Jay W. Fox, PhD	University of Virginia Health System	BPC, GNS
Steven E. Fox, PhD	State University of New York Downstate Medical Center	SRB
Thomas D. Fox, PhD	Cornell University, Ithaca	GNS
John J. Foxe	Nathan S. Kline Institute For Psychiatric Research	MSD
Joel E. Frader, MD	Northwestern University	HOP, IMM
Charles P. France, PhD	University of Texas Health Science Center at San Antonio	BBBBP
Renny T. Franceschi, PhD	University of Michigan at Ann Arbor	MSD
Maria A. Franceschini, PhD	Massachusetts General Hospital	BPC
Greg Francis, PhD	Purdue University	BBBBP
Joseph A. Francisco, PhD	Seattle Genetics, Inc	ONC
Richard W. Franck, PhD	Hunter College of City University of New York	BPC
Cyril B. Frank, MD	University of Calgary Health Science Center	MSD
Joachim Frank, PhD	Wadsworth Center	BPC, MDCN
Matthias Frank, PhD	University of California Lawrence Livermore National Laboratory	BPC
Bruce Frankel, MD	Memphis Neuroscience Center	MDCN
Mark S. Frankel, PhD	American Association For The Advancement of Science	HOP
Wayne N. Frankel, PhD	Jackson Laboratory	GNS
Martin E. Franklin, PhD	University of Pennsylvania	BBBBP
Robert B. Franza	University of Washington	BPC
Malcolm J. Fraser, PhD	University of Notre Dame	GNS, IDM
Nigel W. Fraser, PhD	University of Pennsylvania	BDCN
Bruno Frazier, PhD	Georgia Institute of Technology	BPC
Christopher J. Frederickson, PhD	Neurobio Tex, Inc	MDCN
Karl F. Freed, PhD	University of Chicago	BPC
Kenneth E. Freedland, PhD	Washington University School of Medicine	BBBBP
Bruce D. Freedman, DVM, PhD	University of Pennsylvania	BDCN
Jane E. Freedman, MD	Boston University School of Medicine	CVS
Neil J. Freedman, MD	Duke University Medical Center	ENR
Patty S. Freedson, PhD	University of Massachusetts	HOP
Sally A. Freels, PhD	University of Illinois	HOP
Dennis M. Freeman, PhD	Massachusetts Institute of Technology	IFCN
Gordon J. Freeman, PhD	Dana-Farber Cancer Institute	IMM
James W. Freeman, PhD	University of Texas Health Science Center at San Antonio	ONC
Mason W. Freeman, MD	Massachusetts General Hospital	NMS
Michael L. Freeman, PhD	Vanderbilt University School of Medicine	ONC
Michael R. Freeman, PhD	Children's Hospital, Boston	MSD, ONC
Walter J. Freeman, MD, PhD	University of California, Berkeley	BDCN
William R. Freeman, MD	University of California, San Diego	MDCN
Hudson H. Freeze, PhD	Burnham Institute	BCS
Benjamin J. Fregly, PhD	University of Florida	MSD

Roger M. Freidinger, PhD	Merck Sharp and Dohme Research Laboratories	MDCN
Susan M. Freier, PhD	Isis Pharmaceuticals, Inc	GNS
Nelson B. Freimer, MD, PhD	University of California, Los Angeles	GNS
Ernesto Freire, PhD	Johns Hopkins University	BPC
Nancy E. Freitag, PhD	Seattle Biomedical Research Institute	IDM
Jeffrey A. Frelinger, PhD	University of North Carolina, Chapel Hill	IMM
Edward D. French, PhD	University of Arizona	IFCN
Jeffrey A. French, PhD	University of Nebraska, Omaha	IFCN
Krystyna Frenkel, PhD	New York University Medical Center	ONC
Lisa M. Frenkel, MD	Children's Hospital and Regional Medical Center	AARR
Jo L. Freudenheim, PhD	State University of New York at Buffalo	HOP
Alan B. Frey, PhD	New York University Medical Center	IMM
Eric C. Frey, PhD	Johns Hopkins University	SRB
Kirk A. Frey, MD, PhD	Tourette Syndrome Association, Inc	MDCN
William H. Frey, PhD	University of Michigan	HOP
James P. Freyler, PhD	Los Alamos National Laboratory	ONC
Lucia C. Freytag, PhD	Tulane University School of Medicine	AARR
Gary H. Friday, MD, PhD	Bryn Mawr College	BDCN
Karen H. Friderici, PhD	Michigan State University	IFCN
Judith L. Fridovich-Keil, PhD	Emory University School of Medicine	GNS
Kenneth C. Fried,	Fairfield Technologies Inc	SRB
Peter A. Fried, PhD	Carleton University	BBBBP
Terri R. Fried, MD	Yale University School of Medicine	HOP
Martin Friedlander, MD, PhD	Scripps Research Institute	CDF
Jeffrey M. Friedman, MD, PhD	The Rockefeller University	MDCN
Peter A. Friedman, PhD	University of Pittsburgh	MSD
Thomas Baer Friedman, PhD	National Institute On Deafness and Other Communication Disorders	HOP
Victor L. Friedrich, PhD	Mount Sinai Medical Center	CDF
Paul D. Friesen, PhD	University of Wisconsin, Madison	IDM
Elizabeth A. Friis, PhD	University of Kansas	MSD
David D. Frisbie, DVM, PhD	Colorado State University	MSD
Kevin L. Fritsche, PhD	University of Missouri, Columbia	ENR
Steven L. Fritz, PhD	University of Maryland Baltimore Professional School	SRB
Michael A. Frohman, MD, PhD	State University of New York at Stony Brook	GNS
Carmelita G. Frondoza, PhD	Johns Hopkins University	MSD
Walter R. Frontera, MD, PhD	Spaulding Rehabilitation Hospital	MSD
Andra R. Frost, MD	University of Alabama	ONC
Douglas O. Frost, PhD	University of Maryland, Baltimore County	BDCN
Susan C. Frost, PhD	University of Florida	ENR
Richard Frothingham, MD	Duke University Medical Center	IDM
John P. Fruehauf, MD, PhD	Oncotech, Inc	ONC
David A. Fruman, PhD	University of California, Irvine	IMM
Kirk E. Fry, PhD	Genelabs Incorporated	AARR
Cheryl A. Frye, PhD	State University of New York at Albany	IFCN
Allison D. Fryer, PhD	Oregon Health and Science University	MDCN
Robert C. Frysinger, PhD	University of California, Los Angeles School of Medicine	IFCN
Shu Man Fu, MD, PhD	University of Virginia Health Sciences Center	MSD
Tong-Ming Fu, MD, PhD	Merck and Company, Inc	AARR
Yang-Xin Fu, MD, PhD	University of Chicago	IMM
Jannon L. Fuchs, PhD	University of North Texas	IFCN
Leslie C. Fuchs, PhD	Medical College of Georgia	CVS
Kohtaro Fujihashi, DDS, PhD	University of Alabama	IDM
Joan H. Fujimura, PhD	University of Wisconsin, Madison	GNS
Dai Fukumura, MD, PhD	Massachusetts General Hospital	ONC
Eiichi Fukushima, PhD	New Mexico Resonance	SRB
Roderick J. Fullard, OD, PhD	University of Alabama at Birmingham	BDCN
Deborah Fuller, PhD	Powderject Vaccines, Inc	AARR
Fred J. Fuller, PhD	North Carolina State University	AARR
Jean Fuller-Stanley, PhD	Wellesley College	IMM
Karla J. Fullner, PhD	Northwestern University	IDM

Amy M. Fulton, PhD	University of Maryland	ONC
Daniel W. Fults, MD	University of Utah	BDCN
James Funderburgh, PhD	University of Pittsburgh	BDCN
Yuen K. Fung, PhD	Children's Hospital Los Angeles	ONC
Jeanne B. Funk, PhD	University of Toledo	RPHB
William F. Furey, PhD	University of Pittsburgh	BCS
Martha B. Furie, PhD	State University of New York at Stony Brook	MSD
Phillip A. Furman, PhD	Triangle Pharmaceuticals, Inc	AARR
Wyndol C. Furman, PhD	University of Denver	RPHB
Philip Furmanski, MD, PhD	New York University	ONC
Priscilla A. Furth, MD, PhD	Georgetown University	MSD
Yasuhide Furuta, PhD	University of Texas M.D. Anderson Cancer Center	CDF
Zoltan M. Fuzessery, PhD	University of Wyoming	IFCN
Deborah K. Fygenson, PhD	University of California, Santa Barbara	BPC
Terry Gaasterland, PhD	The Rockefeller University	GNS
Abram Gabriel, MD	Rutgers University	IDM
Don A. Gabriel, MD, PhD	University of North Carolina, Chapel Hill	HEME
Michael Gabriel, PhD	University of Illinois	MDCN
John D. Gabrieli, PhD	Stanford University	IFCN
Edward W. Gabrielson, MD	Johns Hopkins University	ONC
Janice L. Gabrilove, MD	Mount Sinai School of Medicine	ONC
Dmitry I. Gabrilovich, MD, PhD	H. Lee Moffitt Cancer Center and Research Institute	IMM, ONC
Dana H. Gabuzda, MD	Dana-Farber Cancer Institute	AARR
Sarah L. Gaffen, PhD	State University of New York at Buffalo	IDM
Kathleen F. Gaffney, PhD	George Mason University	HOP
Douglas A. Gage, PhD	Michigan State University	BPC
Timothy B. Gage, PhD	State University of New York at Albany	RPHB
Lorise C. Gahring, PhD	University of Utah	MDCN
David Gailani, MD, PhD	Vanderbilt University	CVS, PPS
William D. Gaillard, MD	Children's Research Institute	BBBP, BDCN
Atwood D. Gaines, PhD	Case Western Reserve University	RPHB
Thomas F. Gajewski, MD, PhD	University of Chicago	ONC
Douglas R. Galasko, MD	University of California, San Diego	BDCN
Michael J. Gale, PhD	University of Texas Southwestern Medical Center at Dallas	AARR, IDM
Beth Galford, DNSc	University of Central Florida	HOP
Mary R. Galinski, PhD	Emory University	AARR
Zorina S. Galis, PhD	Emory University	CVS
Mark Galizio, PhD	University of North Carolina, Chapel Hill	BBBP
Joseph G. Gall, PhD	Carnegie Institution of Washington, DC	CDF
Kenneth P. Gall, PhD	University of Texas Southwestern Medical Center at Dallas	ONC
Joel P. Gallagher, PhD	University of Texas Medical Branch	BBBP
Thomas M. Gallagher, PhD	Loyola University Medical School	IDM
James M. Gallas, PhD	University of Texas Health Science Center at San Antonio	BDCN
Gary E. Gallick, PhD	University of Texas M.D. Anderson Cancer Center	ONC
James J. Galligan, PhD	Michigan State University	PPS
Agatha M. Gallo, PhD	University of Illinois at Chicago	HOP
James M. Gallo, PhD	Fox Chase Cancer Center	ONC, SRB
Darrell R. Galloway, PhD	Naval Medical Research Center	IDM
Andrea Gambotto, MD, PhD	University of Pittsburgh	BCS
Wenbiao Gan, PhD	New York University School of Medicine	MDCN
Ram N. Ganapathi, PhD	Cleveland Clinic Foundation	ONC
Varsha Gandhi, PhD	University of Texas	CVS
A. Jay Gandolfi, PhD	University of Arizona	PPS
Sam Gandy, MD, PhD	New York University School of Medicine	BDCN
Doina Ganea, PhD	Federation of American Societies For Experimental Biology	BDCN
Nadarajah Ganeshkumar, PhD	Boston University, Medical Campus	MSD
Stephen J. Gange, PhD	Johns Hopkins University	AARR
Aleem Gangjee, PhD	Duquesne University	AARR
Mary Ganguli, MD	University of Pittsburgh	HOP
Rohan Ganguli, MD	University of Pittsburgh Medical Center	BDCN

Robert Lee Gannon, PhD	Dowling College	IFCN
Roman R. Ganta, PhD	Kansas State University	IDM
Shou-Jiang Gao, PhD	University of Texas Health Science Center at San Antonio	AARR
Sujuan Gao, PhD	Indiana University	HOP
Judy Garber, MD, PhD	Vanderbilt University	RPHB
Andres J. Garcia, PhD	Georgia Institute of Technology	BPC
Dana M. Garcia, PhD	Southwest Texas State University	IMM
George A. Garcia, PhD	University of Michigan at Ann Arbor	BPC
Jorge Garcia, PhD	Boston College	GNS
Oscar Garcia	Wright State University	BPC
Sixto Garcia-Castineiras, MD, PhD	University of Puerto Rico Medical School	BDCN
J. Victor Garcia-Martinez, PhD	University of Texas Southwestern Medical Center at Dallas	AARR
Edgar E. Garcia-Rill, PhD	University of Arkansas For Medical Sciences	PPS
Adolfo Garcia-Sastre, PhD	Mount Sinai School of Medicine	AARR
Katheleen Gardiner, PhD	University of Denver	GNS
Dale Gardner, PhD	United States Department of Agriculture	IDM
John A. Gardner, PhD	Viewplus Technologies, Inc	BBBBP
Reed M. Gardner, PhD	University of Utah	BPC
Wendi L. Gardner, PhD	Northwestern University	RPHB
Abhimanyu Garg, MB, MD	University of Texas Southwestern Medical Center at Dallas	AARR
David A. Garloff, EdD	Des Moines University Osteopathic Medical Center	RPHB
Craig C. Garner, PhD	Stanford University	MDCN
Harold R. Garner, PhD	University of Texas Southwestern Medical Center at Dallas	BPC
Judy A. Garner	University of Southern California	BDCN
Deborah W. Garnick, ScD	Brandeis University	HOP
Renee J. Garofalo, OD	Alcon Research Ltd	BDCN
Roberto P. Garofalo, MD	University of Texas Medical Branch at Galveston	IMM
William T. Garrard, PhD	University of Texas Southwestern Medical Center at Dallas	GNS
Robin L. Garrell, PhD	University of California, Los Angeles	BPC
Gian C. Garriga, PhD	University of California	BCS
Robert F. Garry, PhD	Tulane University Health Sciences Center	IDM
Suzanne Gartner, PhD	Johns Hopkins Hospital	AARR
W. Timothy Garvey, MD	University of Alabama at Birmingham	ENR
Beth A. Garvy, PhD	University of Kentucky	AARR
Michael G. Garwood, PhD	University of Minnesota	SRB
Thomas A. Gasiewicz, PhD	University of Rochester Medical Center	PPS
Darrell J. Gaskin, PhD	Johns Hopkins University	HOP
Craig Gatto, PhD	Oregon Health and Science University	MDCN
James W. Gaubatz, PhD	University of South Alabama	ONC
William J. Gauderman, PhD	University of Southern California	HOP
Glen N. Gaulton, PhD	University of Pennsylvania	AARR
Shiva P. Gautam, PhD	Vanderbilt University School of Medicine	HOP
Donald P. Gaver, PhD	Tulane University	MDCN
Haralambos P. Gavras, MD	Boston University Medical Center	CVS
Robert E. Gawley, PhD	University of Arkansas at Fayetteville	BPC
Carol V. Gay, PhD	Pennsylvania State University	MSD
Xiaojia Ge, PhD	University of California	RPHB
Nicholas E. Geacintov, PhD	New York University	ONC
Norcross D. Geary, PhD	Cornell University Medical Center/New York Hospital	IFCN
David F. Gebhard,	Pfizer, Inc	HEME
Gerald F. Gebhart, PhD	University of Iowa	IFCN
Christopher D. Geddes, PhD	University of Maryland Biotechnology Institute	BPC, CDF
James W. Geddes, PhD	University of Kentucky	BDCN
Hugo Geerts, PhD	In Silico Biosciences	BDCN
Warren B. Gefter, MD	University of Pennsylvania	SRB
William J. Gehring, PhD	University of Michigan	BBBBP
Lawrence Geiter, PhD	Sequella Global Tuberculosis Foundation	AARR
Marie C. Gelato, MD, PhD	State University of New York at Buffalo	AARR
Michael H. Gelb, PhD	University of Washington	IDM
Harris A. Gelbard, MD, PhD	University of Rochester	AARR

Romas Geleziunas, PhD	Merck and Company, Inc	AARR
Jeffrey A. Gelfand, MD	Massachusetts General Hospital	MSD
Vladimir I. Gelfand, PhD	University of Illinois at Urbana-Champaign	CDF
Alfred I. Geller, PhD	Harvard University Medical School	BDCN
Herbert Geller, PhD	National Heart, Lung and Blood Institute	MDCN
Benjamin B. Gelman, MD, PhD	University of Texas Medical Branch at Galveston	IFCN
Irwin H. Gelman, PhD	Roswell Park Cancer Institute	ONC
Alan Gelperin, PhD	Bell Laboratories	IFCN
Caroline A. Genco, MD, PhD	Boston Medical Center	IDM
Jason Z. Geng, DSc	Genex Technologies, Inc	MSD
Susan Gennaro, PhD	University of Pennsylvania	HOP
Christopher R. Genovese, PhD	Carnegie Mellon University	HOP
Claudia R. Gentry-Weeks, PhD	Colorado State University	IDM
Anne George, PhD	University of Illinois at Chicago	MSD
John S. George, PhD	Los Alamos National Laboratory	BPC, MDCN
Mark S. George, MD	Medical University of South Carolina	IFCN
Steven C. George, MD, PhD	University of California, Irvine	MSD
Susan R. George, MD	University of Toronto	MDCN
Mindy George-Weinstein, PhD	Philadelphia College of Osteopathic Medicine	CDF
Millie M. Georgiadis, PhD	Indiana University-Purdue University, Indianapolis	BPC
Mark W. Geraci, MD	University of Colorado Health Sciences Center	PPS
Melissa Gerald, PhD	Caribbean Primate Research Center	BBBP
Madina R. Gerasimov, DMD	Brookhaven Science Association-Brookhaven Laboratory	BDCN
Nicholas Gerber, MBBS	Ohio State University	BBBP
Anthony M. Gerdes, PhD	University of South Dakota	PPS
Dan D. Gerendasy, PhD	Scripps Research Institute	MDCN
Guido Gerig, PhD	University of North Carolina	MDCN
Louann Gerken, PhD	University of Arizona	BBBP
John A. Gerlt, PhD	University of Illinois	BCS
Michael S. German, MD	University of California, San Francisco	NMS
Barbara B. Germino, PhD	University of North Carolina, Chapel Hill	HOP
Gregory G. Germino, MD	Johns Hopkins University	MSD
James E. Gern, MD	University of Wisconsin, Madison	IMM
Fredric E. Gerr, MD, PhD	University of Iowa	HOP
Bruce R. Gerratt, PhD	University of California, Los Angeles	BBBP
Jeffrey Gershenwald, MD	University of Texas M.D. Anderson Cancer Center	ONC
Elliot S. Gershon, MD	University of Chicago	BDCN
Paul D. Gershon, PhD	Texas A&M University Health Science Center	IDM
Robyn R. Gershon, DrPH, PhD	Columbia University	HOP
Laurel J. Gershwin, DVM, PhD	University of California, Davis	IMM
M. Eric Gershwin, MD, PhD	University of California, Davis	IDM
Stanton L. Gerson, MD, PhD	Case Western Reserve University	ONC
Mark Gerstein, PhD	Yale University	BPC
Louis C. Gerstenfeld, PhD	Boston University, Medical Campus	MSD
Morie A. Gertz, MD	Mayo Clinic, Rochester	MSD
Daniel H. Geschwind, MD, PhD	University of California, Los Angeles	BDCN
Robert Gesteland, PhD	University of Cincinnati	SRB
Marilyn L. Getchell, PhD	University of Kentucky	BDCN
Elizabeth A. Gettig, PhD	University of Pittsburgh	GNS
Lawrence M. Gettleman, DMD	University of Louisville	MSD
Alan S. Gevins, DSc	Sam Technology, Inc	BDCN
Andrew T. Gewirtz, PhD	Emory University School of Medicine	IDM
David A. Gewirtz, PhD	Medical College of Virginia	ONC
Hamid Ghandehari, PhD	Nektar Therapeutics	BCS
Mohammad Ghaziuddin, MD	University of Michigan	BBBP
Berhane Ghebrehwet, DSc, DVM	State University of New York at Stony Brook	IMM
Fayez K. Ghishan, MD	University of Arizona	PPS
Anuja Ghorpade, PhD	University of Nebraska Medical Center	MDCN
David Ghosh, PhD	Institute For Transcriptional Informatics	BPC
Indraneel Ghosh, PhD	University of Arizona	BPC

Sankar Ghosh, PhD	Keystone Symposia	IDM
Amato J. Giaccia, PhD	Stanford University	ONC
Filippo G. Giancotti, MD, PhD	Sloan-Kettering Institute For Cancer Research	MSD
Frederick X. Gibbons, PhD	Iowa State University	RPHB
Robert B. Gibbs, PhD	University of Pittsburgh	MDCN
Ronald S. Gibbs, MD	University of Colorado Health Sciences Center	NMS
Nicole S. Gibran, MD	University of Washington	SRB
Bradford W. Gibson, PhD	Buck Institute For Age Research	BCS, BPC
Carolyn W. Gibson, PhD	University of Pennsylvania	MSD
Donna M. Gibson, PhD	United States Department of Agriculture	CDF
Gary E. Gibson, PhD	Winifred Masterson Burke Medical Research Institute	MDCN
Greg Gibson, PhD	Texas State Department of Mental Health and Mental Retardation	GNS
Kevin F. Gibson, MD	University of Pittsburgh School of Medicine	PPS
Lorna J. Gibson, PhD	Massachusetts Institute of Technology	MSD
Wade W. Gibson, PhD	John Hopkins University School of Medicine	IDM
Michael Giddings, PhD	University of North Carolina, Chapel Hill	BPC
Scott G. Giebink, MD	University of Minnesota, Twin Cities	AARR
David P. Giedroc, PhD	Texas A&M University	BPC
Glenn J. Giesler, PhD	University of Minnesota	IFCN
Rona G. Giffard, MD, PhD	Stanford University	SRB
Allen L. Gifford, MD	University of California, San Diego	AARR
Francis Gigliotti, MD	University of Rochester	AARR
Brian E. Gilbert, PhD	Baylor College of Medicine	IDM
Ileen Gilbert, MD	Medical College of Wisconsin	HOP
Lars G. Gilbertson, PhD	University of Pittsburgh	MSD
Barbara A. Gilchrest, MD, PhD	Boston University School of Medicine	MSD
James M. Gilchrist, MD	Brown University School of Medicine	HOP
Donna E. Giles, PhD	University of Rochester Medical Center	BDCN
Steven M. Giles, PhD	Tanglewood Research, Inc	BBBP
Ronald G. Gill, PhD	University of Colorado Health Sciences Center	BPC
Sarjeet S. Gill, PhD	University of California	IDM
Greg Gillen, PhD	National Institute of Standards and Technology	BCS
G. Yancey Gillespie, PhD	University of Alabama at Birmingham	BDCN
Peter G. Gillespie, PhD	Oregon Health and Science University	IFCN
Robert J. Gillies, PhD	University of Arizona Health Sciences Center	SRB
Gary L. Gilliland, PhD	National Institute of Standards and Technology	BCS
Thomas P. Gillis, PhD	National Hansen's Disease Program	AARR
Mary Alice Gillispie, MD	Family Health Care Center	RPHB
Michael S. Gilmore, MD, PhD	University of Oklahoma Health Sciences Center	IDM, MSD
Wendy Gilmore, PhD	University of Southern California	BDCN
Susan K. Gilmour, PhD	Lankenau Institute For Medical Research	ONC
Roger K. Gilpin, PhD	Wright State University	BPC
Michael K. Gilson, MD, PhD	Verachem, Llc	BPC, MDCN
Jeffrey M. Gimble, MD, PhD	Artecel Sciences, Inc	MSD
Phyllis L. Gingiss, DPH, PhD	University of Houston	RPHB
Mark H. Ginsberg, MD	Scripps Research Institute	HEME
Susan S. Girdler, PhD	University of North Carolina, Chapel Hill	BBBP
Mark E. Girvin, PhD	Albert Einstein College of Medicine, Yeshiva University	BPC
Simon F. Giszter, PhD	Hahnemann University	IFCN
Sadanand Gite, PhD	Ambergen, Inc	BPC, ONC
Jonathan David Gitlin, MD	Washington University	BDCN
Andrew Gitter, MD	University of Texas Health Science Center	MSD
Anna R. Giuliano, PhD	University of Arizona	HOP
David Gius, MD, PhD	National Cancer Institute	ONC
Alice L. Givan, PhD	Dartmouth Medical School	CVS
Candece L. Gladson, MD	University of Alabama at Birmingham	ONC
Brian A. Gladue, PhD	University of Cincinnati	RPHB
Robert M. Glaeser, PhD	University of California, Berkeley	CDF
Leonard H. Glantz, JD	Boston University, Medical Campus	MDCN
Raymon Glantz, PhD	Rice University	IFCN

Alan G. Glaros, PhD	University of Missouri, Kansas City	MSD, RPHB
David J. Glass	Kent State University	IFCN
David N. Glass, MB, MD	Children's Hospital Medical Center, Cincinnati	MSD
Eli J. Glatstein, MD, PhD	University of Pennsylvania	ONC
Daniel G. Glaze, MD	Baylor College of Medicine	PPS
Christine A. Gleason, MD	University of Washington	BDCN
Robb W. Glenn, MD	University of Washington	PPS
Henry Glick, PhD	University of Pennsylvania School of Medicine	CVS, GNS
James B. Gloer, PhD	University of Iowa	CDF
Gary H. Glover, PhD	Stanford University	CDF, SRB
John R. Glowa, PhD	Pfizer, Inc	BDCN
Stephen L. Gluck, MD	University of California, San Francisco	PPS
Matthew R. Glucksberg, PhD	Northwestern University	BDCN, IDM
Arthur F. Gmitro, PhD	University of Arizona	SRB
Alan S. Go, MD	Kaiser Foundation Research Institute	HOP
Rodney C. Go, PhD	University of Alabama at Birmingham	HOP
Vay Liang W. Go, MD, PhD	University of California, Los Angeles	ONC
Katrina Goddard, PhD	Case Western Reserve University	GNS
John J. Godleski, MD, PhD	Harvard University School of Public Health	CDF
Bernard F. Godley, MD, PhD	Retina Foundation of The Southwest	CDF
Andrew K. Godwin, PhD	Fox Chase Cancer Center	ONC
John E. Godwin, MD	Loyola University Medical Center	HOP
Adam Godzik, PhD	Burnham Institute	BCS, PPS
Nicholas E. Goeders, PhD	Louisiana State University Medical Center	BBBBP, IFCN
Lisa E. Goehler, PhD	University of Virginia, Charlottesville	MDCN
Christine Goertz, DC, PhD	National Center For Complementary and Alternative Medicine	RPHB
Paul F. Goetinck, PhD	Massachusetts General Hospital	BCS
Edward J. Goetzl, MD	University of California, San Francisco	CVS
John S. Goff, MD	Rocky Mountain Gastroenterology Associates	SRB
Michael G. Goggins, MD	Johns Hopkins University	ONC
Edward P. Gogol, PhD	University of Missouri, Kansas City	CDF
Jon D. Goguen, PhD	University of Massachusetts Medical School, Worcester	IDM
George W. Gokel, PhD	Washington University School of Medicine	BPC
Bruce G. Gold, PhD	Oregon Health and Science University	MDCN
James M. Gold, PhD	Maryland Psychiatric Research Center	HOP
Michael S. Gold, PhD	University of Maryland Baltimore Professional School	IFCN
Erwin Goldberg, PhD	Northwestern University	NMS
Joanna B. Goldberg, PhD	University of Virginia Health System	IDM
Jonathan D. Goldberg, PhD	Sloan-Kettering Institute For Cancer Research	CDF
Linn Goldberg, MD	Oregon Health and Science University	BBBBP
Marcia B. Goldberg, MD	Massachusetts General Hospital	IDM
Mark P. Goldberg, MD, PhD	Washington University	BDCN
Michael E. Goldberg, MD	Columbia University Health Science Center	IFCN
Ary L. Goldberger, MD	Beth Israel Deaconess Medical Center	HOP
Todd E. Golde, MD, PhD	Mayo Clinic, Jacksonville	BDCN
James R. Goldenring, MD, PhD	Vanderbilt University	SRB
Joshua I. Goldhaber, MD	University of California, Los Angeles	CVS
David J. Goldhamer, PhD	University of Connecticut, Storrs	MSD
Stephen D. Goldinger, PhD	Arizona State University	BBBBP
Margaret B. Goldman, PhD	Pennsylvania State University	IMM
Morris B. Goldman, MD	University of Chicago	IFCN
Steven A. Goldman, MD, PhD	Cornell University Medical College	BDCN
Yale E. Goldman, MD, PhD	University of Pennsylvania	MSD
Dan Goldowitz, PhD	University of Tennessee Health Science Center	BBBBP
Mary B. Goldring, PhD	Beth Israel Deaconess Medical Center	MSD
Aaron S. Goldstein, PhD	Virginia Polytechnic Institute and State University	BCS
Paul J. Goldstein, PhD	University of Illinois at Chicago	HOP
Roger S. Goldstein, MD	Westpark Healthcare Centre	RPHB
Steve A. N. Goldstein, MD, PhD	Yale University	MDCN
Richard C. Goldsworthy, PhD	Academic Edge, Inc	HOP

Erica A. Golemis, PhD	Institute For Cancer Research	CDF
Marc G. Golightly, PhD	State University of New York at Stony Brook	HOP
Michael S. Golligorsky, MD, PhD	New York Medical College	MSD
Ellis E. Golub, PhD	University of Pennsylvania	MSD
Charles J. Gomer, MD, PhD	Children's Hospital Los Angeles	ONC
Richard H. Gomer, PhD	Howard Hughes Medical Institute	SRB
Antoinette S. Gomes, MD	University of California, Los Angeles	CVS
Timothy M. Gomez, PhD	University of Wisconsin	MDCN
Celso E. Gomez-Sanchez, MD	University of Mississippi	CVS
Oded Gonen, PhD	New York University School of Medicine	SRB
Fernando A. Gonzalez, PhD	University of Puerto Rico, Rio Piedras	CDF
Gerardo M. Gonzalez, PhD	California State University, San Marcos	BBBP
Larry P. Gonzalez, PhD	University of Oklahoma Health Sciences Center	IFCN
Milagritos Gonzalez-Rivera, PhD	University of Puerto Rico, Mayaguez	AARR
Francisco A. Gonzalez-Scarano, MD	University of Pennsylvania	AARR
Walter F. Good, PhD	University of Pittsburgh	SRB
Margaret A. Goodell, PhD	Baylor College of Medicine	CDF
Daniel A. Goodenough, PhD	Harvard University Medical School	CDF
Maureen M. Goodenow, PhD	University of Florida	AARR
Paul J. Goodfellow, PhD	Washington University	ONC
Karl Goodkin, MD, PhD	University of Miami	AARR
Charles R. Goodlett, PhD	Indiana University-Purdue University, Indianapolis	IFCN
Kenneth W. Goodman, PhD	University of Miami	HOP
Marc T. Goodman, PhD	University of Hawaii at Manoa	HOP
Nat Goodman, PhD	Institute For Systems Biology	GNS
Robert M. Goodman, PhD	University of Wisconsin, Madison	IDM
William G. Goodman, MD	University of California, Los Angeles	MSD
Holly V. Goodson, PhD	University of Notre Dame	MDCN
Elizabeth B. Goodwin, PhD	University of Wisconsin, Madison	CDF
Ted A. Gooley, PhD	Fred Hutchinson Cancer Research Center	ONC
Paula A. Goolkasian, PhD	University of North Carolina, Chapel Hill	MSD
Rakesh M. Goorha, DVM, PhD	St. Jude Children's Research Hospital	CDF
Mira Goral, PhD	Boston University	BBBP
Gary J. Gorbsky, PhD	Oklahoma Medical Research Foundation	CDF
Barry Gordon, MD, PhD	Johns Hopkins Medical Institutions	BBBP
Jennifer Gordon, PhD	Temple University	IDM
Leo I. Gordon, MD	Northwestern University Medical School	ONC
Marcia N. Gordon, PhD	University of South Florida	BDCN
Sydney M. Gordon, DSc	Battelle Centers/Public Health Research and Evaluation	BPC
Sandra Gordon-Salant, PhD	University of Maryland	IFCN
John C. Gore, PhD	Vanderbilt University Medical Center	BDCN, SRB
Steven D. Gore, MD, PhD	Johns Hopkins University	ONC
Susan L. Gore, PhD	University of Massachusetts, Amherst	RPHB
Cheryl E. Gore-Felton, PhD	Medical College of Wisconsin	AARR
Fred S. Gorelick, MD	Yale University	PPS
Robert Gorelick, PhD	SAIC-Frederick	AARR
Gregory J. Gores, MD, PhD	Mayo Clinic, Rochester	MSD, ONC, PPS
Richard G. Gorlick, MD	Sloan-Kettering Institute For Cancer Research	MSD
George I. Gorodeski, MD, PhD	University Hospitals of Cleveland	NMS
J. Christopher Gorski, PhD	Indiana University-Purdue University, Indianapolis	MSD
Jeffrey P. Gorski, PhD	University of Missouri	BCS
Steven L. Gortmaker, MD, PhD	Harvard University Medical School	RPHB
Mathias Gotte, PhD	McGill University	AARR
Paul E. Gottschall, PhD	University of South Florida	BDCN
Daniel E. Gottschling, PhD	Fred Hutchinson Cancer Research Center	CDF
David A. Gough, PhD	University of California, San Diego	SRB
Elizabeth Gould, PhD	Princeton University	IFCN
Stephen J. Gould, PhD	Johns Hopkins University	CDF
Richard L. Gourse, PhD	Federation of American Societies For Experimental Biology	IDM
Joan M. Goverman, PhD	University of Washington	IMM

Andrew J. Gow, PhD	Children's Hospital of Philadelphia	BDCN
Laurie A. Gower, PhD	University of Florida	MSD
Sanna M. Goyert, MD, PhD	North Shore-Long Island Jewish Research Institute	SRB
David A. Gozal, MD	University of Louisville	PPS
Mark D. Grabiner, PhD	University of Illinois at Chicago	MSD
David Grabowski, PhD	University of Alabama at Birmingham	HOP
Eric F. Grabowski, MD, PhD	Massachusetts General Hospital	CVS
Gregory A. Grabowski, MD	Children's Hospital Medical Center, Cincinnati	BCS
Anthony A. Grace, PhD	University of Pittsburgh School of Medicine	IFCN
William M. Grady, MD	Vanderbilt University	ONC
Linda M. Graham, MD	Cleveland Clinic Foundation	SRB
Sandra H. Graham, PhD	University of California, Los Angeles	BBBP, RPHB
David W. Grainger, MD, PhD	Colorado State University	BCS, BPC, SRB
Jay D. Gralla, PhD	University of California, Los Angeles	IDM
Steven C. Grambow, PhD	Duke University	CVS
Richard H. Gramzow, PhD	University of North Carolina, Chapel Hill	RPHB
Xavier Grana, PhD	Temple University School of Medicine	CDF
Kevin P. Granata, PhD	Virginia Polytechnic Institute and State University	BDCN, MSD
Daniel A. Grande, PhD	Tissue Genesis, Inc	MSD
Jennifer R. Grandis, MD	University of Pittsburgh School of Medicine	ONC
Joey P. Granger, PhD	Federation of American Societies For Experimental Biology	CVS, HEME
Victor R. Grann, MD	Columbia University	HOP
Richard D. Granstein, MD	Weill Medical College of Cornell University	MSD
Christopher K. Grant, DSc, PhD	Custom Monoclonals International	AARR
Kathleen A. Grant, PhD	Wake Forest University Health Sciences	IFCN
Maria B. Grant, MD	University of Florida	BDCN, CDF, NMS
Robert M. Grant, MD	J. David Gladstone Institutes	AARR
Steve Grant, MD	Virginia Commonwealth University	ONC
Henk L. Granzier, PhD	Washington State University	MSD
Enrico Gratton, PhD	University of Illinois at Urbana-Champaign	BPC
Gabriele Gratton, MD, PhD	University of Illinois at Urbana-Champaign	IFCN
Lauretta Grau, PhD	Yale University	HOP
David E. Graves, PhD	University of Mississippi	GNS
Reed A. Graves, PhD	State University of New York at Buffalo	NMS
Joe W. Gray, PhD	University of California, San Francisco	GNS
Sarah D. Gray, PhD	University of California, Davis	PPS
Wayne L. Gray, PhD	University of Arkansas For Medical Sciences	AARR
Ann M. Graybiel, PhD	Massachusetts Institute of Technology	IFCN
Dennis R. Grayson, PhD	University of Illinois at Chicago	MDCN
Frank M. Graziano, MD, PhD	University of Wisconsin Hospital	MSD
John Greaves, PhD	Kemin Industries Inc	BPC
William R. Greco, PhD	Roswell Park Cancer Institute	ONC
Barry G. Green, PhD	John B. Pierce Laboratory, Inc	IFCN
Bonnie L. Green, PhD	Georgetown University	BBBP
Carla B. Green, PhD	University of Virginia	IFCN
Douglas R. Green, PhD	La Jolla Institute For Allergy and Immunology	BPC, ONC
Kathleen J. Green, PhD	Northwestern University	CDF
Michael J. Green, MD, PhD	Pennsylvania State University College of Medicine	GNS
Ronald M. Green, PhD	Dartmouth College	HOP
Sharone Green, MD	University of Massachusetts Medical School, Worcester	AARR
William N. Green, PhD	University of Chicago	BDCN
Alan R. Greenberg, PhD	University of Colorado at Boulder	MSD
Marc M. Greenberg, PhD	Colorado State University	BPC, ONC
Mark T. Greenberg, PhD	Pennsylvania State University, University Park	RPHB
Joel S. Greenberger, MD, PhD	University of Pittsburgh	ONC
Richard E. Greenblatt, PhD	Source Signal Imaging, Inc	SRB
Geoffrey L. Greene, MD, PhD	University of Chicago	NMS
Paul G. Greene, PhD	University of Alabama at Birmingham	RPHB
Robert W. Greene, MD, PhD	University of Texas Southwestern Medical Center at Dallas	IFCN
Robert A. Greenes, MD, PhD	Brigham and Women's Hospital	MDCN

David G. Greenhalgh, MD	University of California, Davis	SRB
James F. Greenleaf, PhD	Mayo Clinic, Rochester	SRB
Fred Greensite, MD	University of California, Irvine	SRB
Ralph J. Greenspan, PhD	New York University	IFCN
Richard M. Greenwald, PhD	Simbex, LLC	MSD
Charles A. Greer, PhD	Yale University	IFCN
John Greer, PhD	University of Alberta	IFCN
Peter K. Gregersen, MD	North Shore-Long Island Jewish Research Institute	IMM
Karen A. Gregerson, PhD	St. Louis University	IFCN
Robert J. Gregor, PhD	Georgia Institute of Technology	MSD
Paula E. Gregory, PhD	Louisiana Gene Therapy Research Consortium	GNS
Nigel H. Greig, PhD	National Institute On Aging	CVS
Jeffrey S. Grethe, PhD	University of California, San Diego	MDCN
Howard M. Grey, MD	La Jolla Institute For Allergy and Immunology	IMM
Anne E. Griep, PhD	University of Wisconsin, Madison	BDCN
Ann L. Griffen, DDS	Ohio State University	RPHB
John H. Griffin, PhD	Scripps Research Institute	CVS
Sue T. Griffin, PhD	University of Arkansas For Medical Sciences	BDCN
William V. Griffin,	Independent Living Resources, Inc	BBBP
Leslie C. Griffith, MD, PhD	Brandeis University	MDCN
Jeffrey K. Griffiths, MD	Tufts University School of Medicine	AARR, HOP
Harvey J. Grill, PhD	University of Pennsylvania	IFCN
Warren M. Grill, PhD	Case Western Reserve University	BDCN, MDCN
George S. Grills	Harvard University	GNS
Carlos M. Grilo, PhD	Yale University	BBBP
Alan D. Grinnell, PhD	University of California, Los Angeles	MDCN
Judith B. Grinspan, PhD	Children's Hospital of Philadelphia	MDCN
Mark W. Grinstaff, PhD	Boston University, Charles River Campus	BCS
Matthew B. Grisham, PhD	Louisiana State University Health Sciences Center, Shreveport	ONC
Charles B. Grissom, PhD	University of Utah	BPC
Thomas M. Grist, MD	University of Wisconsin, Madison	SRB
Michael D. Griswold, PhD	Society For The Study of Reproduction	ENR
George L. Grobe, PhD	Depuy Orthopaedics, Inc	BPC
James E. Grobe, PhD	University of Kansas	RPHB
Joanna L. Groden, PhD	University of Cincinnati	ONC
William M. Grogan, PhD	Virginia Commonwealth University	BCS
Eduardo A. Groisman, PhD	Washington University School of Medicine	IDM
Markus C. Grompe, MD	Federation of American Societies For Experimental Biology	GNS
Gloria A. Gronowicz, PhD	University of Connecticut Health Center	MSD
Robert J. Gropler, MD	Washington University School of Medicine	CVS
Charles F. Grose, MD	University of Iowa	AARR, HOP
Andrew J. Grosovsky, DSc, PhD	University of California, Riverside	ONC
David J. Gross, MD, PhD	University of Massachusetts	CDF
Deborah A. Gross, DNSc,	Rush-Presbyterian-St. Luke's Medical Center	HOP
Steven P. Gross, PhD	University of California, Irvine	NMS
Steven S. Gross, PhD	Weill Medical College of Cornell University	BPC, CVS, HEME
Cynthia L. Grosskreutz, MD	Massachusetts Eye and Ear Infirmary	BDCN
Michael Grossman, PhD	National Bureau of Economic Research	HOP
Murray Grossman, EdD, MD	University of Pennsylvania	BBBP
Robert B. Grossman, PhD	University of Kentucky	BPC
Hans E. Grossniklaus, MD	Emory University	BDCN
Gerard C. Grosveld, PhD	St. Jude Children's Research Hospital	ONC
William C. Groutas, PhD	Wichita State University	BPC
Maleah Grover-Mckay, MD	University of Iowa School of Medicine	SRB
Jay T. Groves, PhD	University of California Lawrence Berkeley National Laboratory	IMM
John T. Groves, PhD	Princeton University	BPC
Kathie Grovit-Ferbas, PhD	University of California, Los Angeles	AARR
Helen E. Gruber, PhD	Carolinas Medical Center	PPS
Dieter C. Gruenert, PhD	University of Vermont	BCS, ONC
Paul J. Gruenewald, PhD	Pacific Institute For Research and Evaluation	HOP

Neil E. Grunberg, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	BDCN
Warren S. Grundfest, MD	University of California, Los Angeles	SRB
Michael Grunstein, PhD	University of California, Los Angeles	CDF
David J. Grunwald, PhD	University of Utah	CDF
Donna L. Gruol, PhD	Scripps Clinic and Research Foundation	MDCN
Philip A. Gruppuso, MD	Rhode Island Hospital (Providence, RI)	NMS
Zygmunt Gryczynski, PhD	University of Maryland Baltimore Professional School	BBBBP, CDF
Chong Gu, PhD	Purdue University	BPC, IDM
Hongbin Gu, PhD	University of North Carolina, Chapel Hill	SRB
Jun-Lin Guan, PhD	Cornell University, Ithaca	BCS
John C. Guatelli, MD	Veterans Medical Research Foundation, San Diego	AARR
Lisa M. Guay-Woodford, MD	University of Alabama at Birmingham	GNS
John Guckenheimer, PhD	Cornell University, Ithaca	CDF
Andrei V. Gudkov, PhD	Cleveland Clinic Foundation	ONC
Nancy G. Guerra, Edd, PhD	University of California, Riverside	RPHB
Patricia Guerry, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	IDM
Sandra E. Guggino, PhD	Johns Hopkins University	MSD
Wayne C. Guida, PhD	Eckerd College	CVS
William Guido, PhD	Louisiana State University Health Sciences Center, New Orleans	IFCN
Robert Guidoin, PhD	Laval University	MSD
Cynthia J. Guidos, PhD	University of Toronto Hospital For Sick Children	IMM
Alessandro Guidotti, MD, PhD	University of Illinois at Chicago	IFCN
Clyde M. Guidry, PhD	University of Alabama	BDCN
Farshid Guilak, PhD	Duke University Medical Center	PPS, MSD
Tomas R. Guilarte, PhD	Johns Hopkins University	ENR, IFCN
Donald G. Guiney, MD	University of California, San Diego	IDM
Georges Guiochon, PhD	University of Tennessee	BPC
Anthony Guiseppi-Elie, PhD, ScD	Virginia Commonwealth University	BPC
Erdogan Gulari, PhD	University of Michigan at Ann Arbor	GNS
Rao P. Gullapalli, PhD	University of Maryland Baltimore Professional School	SRB
Sergei Gulnik, PhD	Sequoia Pharmaceuticals, Inc	IDM
Gultekin Gulsen, PhD	University of California, Irvine	MSD, SRB
Leslie Gunatilaka, PhD	Southwest Research Institute	CDF, BPC
Jeremy Gunawardena, PhD	Harvard University	BPC
Robert E. Gundersen, PhD	University of Maine	CDF
Michael D. Gunn, MD	Duke University	IMM
Robert P. Gunsalus, PhD	University of California, Los Angeles	IDM
Su Guo, PhD	University of California, San Francisco	MDCN
Amarnath Gupta, PhD	San Diego Supercomputer Center, Inc	SRB
Phalguni Gupta, PhD	University of Pittsburgh	GNS
Rishab K. Gupta, PhD	John Wayne Cancer Institute	AARR, IMM
Sanjeev Gupta, MBBS, MD	Albert Einstein College of Medicine, Yeshiva University	NMS
Raquel E. Gur, MD, PhD	University of Pennsylvania	BDCN
Ruben C. Gur, PhD	University of Pennsylvania	BDCN, IFCN
Vsevolod V. Gurevich, PhD	Vanderbilt University	CDF
Alejandra C. Gurtman, MD	Mount Sinai School of Medicine	AARR, RPHB
Jamie A. Guth	Dartmouth College	SRB
William G. Gutheil, PhD	University of Missouri, Kansas City	BPC
Howard E. Guthermann, PhD	Optix, Inc	PPS
Ellen P. Guthrie	New England Biolabs	IDM
Myron P. Gutmann, PhD	University of Michigan at Ann Arbor	HOP
Howard B. Gutstein, MD, PhD	University of Texas M.D. Anderson Cancer Center	IFCN
David D. Gutterman, MD	Medical College of Wisconsin	CVS
Noberto A. Guzman, PhD	Johnson and Johnson Pharmaceutical Research and Development	BPC
Jane E. Gwiazda, PhD	New England College of Optometry	BDCN
Sandor Gyorke, PhD	University of Texas Tech Health Sciences Center	MDCN
E. Mark Haacke, PhD	Wayne State University	BDCN
David A. Haaga, PhD	American University	RPHB
Mary N. Haan, DRPH	University of Michigan	HOP, MDCN
Daniel A. Haber, MD, PhD	Massachusetts General Hospital	GNS

Suzanne N. Haber, PhD	University of Rochester	BDCN, IFCN
Wesley S. Hackenberger, PhD	TRS Technologies, Inc	SRB
Miles P. Hacker, PhD	University of Toledo	BPC
Marvin L. Hackert, PhD	University of Texas	IDM
Murray Hackett, PhD	University of Washington	BCS
Martin Hackl, PhD	Pomona College	BBBP
Steven A. Hackley, PhD	University of Missouri, Columbia	IFCN
David B. Hackney, MD	Beth Israel Deaconess Medical Center	SRB
Ted W. Hackstadt, PhD	National Institute of Allergy and Infectious Diseases	IDM
Colleen M. Hadigan, MD	Massachusetts General Hospital	AARR
M. Hadjiargyrou, PhD	State University of New York at Stony Brook	MDCN
Andreas Hadjicostis, PhD	Etalon	SRB
Nouchine Hadjikhani, MD	Massachusetts General Hospital	BBBP, IFCN
Gregg A. Hadley, PhD	University of Maryland Baltimore Professional School	SRB
Holly C. Hagan, PhD	National Development and Research Institutes	AARR
Curt H. Hagedorn, MD	Emory University School of Medicine	PPS
Michael E. Hagensee, MD, PhD	Louisiana State University Health Sciences Center, New Orleans	AARR
Susan C. Hagness, PhD	University of Wisconsin	SRB
Beatrice H. Hahn, MD	Keystone Symposia	AARR
Klaus M. Hahn, PhD	Scripps Research Institute	CDF
Tsonwin S. Hai, PhD	Ohio State University	ONC
Constantine G. Haidaris, PhD	University of Rochester Medical Center	GNS
Mark A. Haidekker, PhD	University of Missouri, Columbia	MSD
Richard J. Haier, PhD	University of California, Irvine	IFCN
David Haig, PhD	Harvard University	ONC
Jonathan L. Haines, PhD	Vanderbilt University	HOP
Debra Haire-Joshu, PhD	St. Louis University	HOP
Katherine A. Hajjar, MD	Weill Medical College of Cornell University	PPS
Ruth Halaban, PhD	Yale University	ONC
John D. Halamka, MD	Beth Israel Deaconess Medical Center	BPC
Randall L. Halcomb, PhD	University of Colorado	BPC
Timothy G. Hales, PhD	George Washington University	BDCN, MDCN
John D. Haley, PhD	OSI Pharmaceuticals, Inc	ONC
Eric Halgren, PhD	Massachusetts General Hospital	BDCN
David H. Hall, PhD	Yeshiva University	BCS
Eric J. Hall, DPH	Columbia University	ONC
Garth F. Hall, PhD	University of Massachusetts, Lowell	BDCN
James E. Hall, PhD	University of California, Irvine	BDCN
Joe Hall, PhD	University of North Carolina	IFCN
Judith A. Hall, MD, PhD	British Columbia Children's Hospital	RPHB
Kathleen B. Hall, PhD	Washington University School of Medicine	BCS, BPC
Dennis E. Hallahan, MD, PhD	Vanderbilt University Medical Center	ONC
Michael Halle, PhD	Brigham and Women's Hospital	SRB
Aurelia A. Haller, PhD	University of Colorado Health Sciences Center	AARR
Emil Hallin, PhD	Canadian Light Source	BCS
Joachim F. Hallmayer, MD, PhD	Stanford University	BBBP, GNS
M. Elizabeth Halloran, DSc, MD	Emory University	HOP
Shelley L. Halpain, PhD	Scripps Research Institute	MDCN
Jeffrey M. Halperin, PhD	Queen's College of University of New York	HOP
Aaron L. Halpern, PhD	The Center For The Advancement of Genomics	GNS
Howard J. Halpern, MD, PhD	University of Chicago Hospital	SRB
Vivienne Halpern, MD	Long Island Jewish Medical Center	CVS
John A. Halter, PhD	Baylor College of Medicine	BPC
Robert S. Haltiwanger, PhD	State University of New York at Stony Brook	BCS
Frank G. Haluska, MD, PhD	Massachusetts General Hospital	ONC
Matti Hamalainen, PhD	Massachusetts General Hospital	SRB
Mark T. Hamann, PhD	University of Mississippi	AARR
Robert M. Hamer, PhD	University of North Carolina	SRB
Thomas A. Hamilton, PhD	Cleveland Clinic Foundation	IMM
Barbara A. Hamkalo, PhD	University of California, Irvine	CDF

Thomas M. Hamm, PhD	St. Joseph's Hospital and Medical Center	IFCN
Marie-Louise Hammarskjold, MD, PhD	University of Virginia	AARR
Ronald P. Hammer, PhD	New England Medical Center Hospitals	IFCN
Roy H. Hammerstedt, PhD	APD Life Sciences, Inc	NMS
Timothy G. Hammond, MB, MD	Louisiana Veteran's Research Corporation	MSD
Michael Hampsey, PhD	University of Medicine and Dentistry of New Jersey	IDM
Robert E. Hampson, PhD	Wake Forest University Health Sciences	IFCN
Min Han, PhD	University of Colorado at Boulder	CDF
James T. Handa, MD	Johns Hopkins University	CDF, MDCN
Robert J. Handa, PhD	Colorado State University	IFCN
Jo E. Handelsman, PhD	University of Wisconsin, Madison	CDF
Leonard Handelsman, MD	Duke University	BDCN
Michael Handley, PhD	Biophorix, Inc	BDCN
Dorit Hanein, PhD	Burnham Institute	CDF
Craig L. Hanis, PhD	University of Texas Health Science Center, Houston	HOP
Kurt Hankenson, DVM, PhD	University of Michigan at Ann Arbor	MSD
Steven K. Hanks, PhD	Vanderbilt University School of Medicine	ONC
Stephen R. Hann, PhD	Vanderbilt University	ONC
Philip C. Hanna, PhD	University of Michigan at Ann Arbor	IDM
Marian T. Hannan, DSc	Hebrew Rehabilitation Center For Aged	HOP
Robert Hanner, PhD	Coriell Institute For Medical Research	PPS
John H. Hannigan, PhD	Wayne State University	IFCN
Gregory J. Hannon, PhD	Cold Spring Harbor Laboratory	ONC
Schreier Hans, PhD	Microsys	BPC
Barbara C. Hansen, PhD	University of Maryland Baltimore Professional School	MSD, NMS
Lars K. Hansen, PhD	Technical University of Denmark	MDCN
Marc F. Hansen, PhD	University of Connecticut Health Center	MSD, ONC
Helen G. Hansma, PhD	University of California, Santa Barbara	CDF
Paul K. Hansma, PhD	University of California, Santa Barbara	BPC
Maureen R. Hanson, PhD	Cornell University	BCS
Phyllis I. Hanson, MD, PhD	Washington University	MDCN
Robert N. Hanson, PhD	Northeastern University	BPC
Veneta G. Hanson, PhD	Mount Sinai School of Medicine	BDCN
Vicki L. Hanson, PhD	IBM Thomas J. Watson Research Center	BBBP
Paul M. Harari, MD	University of Wisconsin, Madison	ONC
Gerard S. Harbison, PhD	University of Nebraska, Lincoln	BPC
Christopher D. Hardin, PhD	Gordon Research Conferences	MSD
Jeffrey D. Hardin, PhD	University of Wisconsin	MDCN
Clifford V. Harding, MD, PhD	Case Western Reserve University	IMM
Nancy S. Hardt, MD	University of Tennessee Health Science Center	MSD
David R. Hardten, MD	Minnesota Eye Consultants	MDCN
J. M. Hardwick, PhD	Johns Hopkins University	CDF
John A. Hardy, MD, PhD	National Institute On Aging	BDCN
Kenneth M. Hargreaves, DDS, PhD	University of Texas Health Science Center at San Antonio	IFCN
Mark Hargrove, PhD	Iowa State University	BCS
Alden H. Harken, MD	University of California, San Francisco	PPS
Joyce B. Harp, MD	University of North Carolina, Chapel Hill	NMS
Henry C. Harpending, PhD	University of Utah	GNS
Lea A. Harrington, PhD	Ontario Cancer Institute	IDM
Mary E. Harrington, PhD	Smith College	IFCN
Peter De B. Harrington, PhD	Ohio University	BPC
Steve Harrington, PhD	Flometrics, Inc	IDM
Alan G. Harris, MD	Schering-Plough Corporation	CVS
Joel M. Harris, PhD	University of Utah	BPC
Kathleen Mullan Harris, PhD	Substance Abuse and Mental Health Administration	HOP
Kristen M. Harris, PhD	Boston University, Charles River Campus	MDCN
Linda C. Harris, PhD	St. Jude Children's Research Hospital	ONC
David G. Harrison, MD	Emory University	BPC
Jeffrey K. Harrison, PhD	University of Florida College of Medicine	BDCN
John R. Harrison, PhD	University of Connecticut Health Center	PPS

Joseph M. Harrison, PhD	University of Texas Health Science Center	CDF
Marietta L. Harrison, PhD	Purdue University, West Lafayette	IMM
Stephen C. Harrison, PhD	Harvard University Medical School	BPC, CDF
Ronald M. Harris-Warrick, PhD	Cornell University, Ithaca	IFCN
Gregory A. Harshfield, PhD	Medical College of Georgia	CVS
Anne C. Hart, PhD	Massachusetts General Hospital	MDCN
Gerald W. Hart, MD	Johns Hopkins University	BPC
Robert D. Harten, PhD	University of Medicine and Dentistry of New Jersey	MSD
Volker Hartenstein, MD, PhD	University of California, Los Angeles	MDCN
Craig J. Hartley, PhD	Baylor College of Medicine	SRB
Terry L. Hartman, PhD	Pennsylvania State University	HOP
Mitra J. Hartmann	Jet Propulsion Laboratory, California Institute of Technology	BBBP
Mary E. Hartnett, MD	University of North Carolina, Chapel Hill	BDCN
John T. Harty, PhD	University of Iowa	IMM
Ronald N. Harty, PhD	University of Pennsylvania	IDM
Arthur J. Hartz, MD, PhD	University of Iowa	MSD
Grant Hartzog, PhD	University of California, Santa Cruz	CDF
Philip D. Harvey, PhD	Mount Sinai School of Medicine	BBBP
Jean R. Harvey-Berino, PhD	University of Vermont	RPHB
Tayyaba Hasan, PhD	Massachusetts General Hospital	ONC
Jeffrey D. Hasday, MD	University of Maryland School of Medicine	PPS
Bruce H. Hasegawa, PhD	University of California, San Francisco	SRB
Ray R. Hashemi, PhD	University of Arkansas at Little Rock	SRB
Kathryn M. Haskins, PhD	University of Colorado Health Sciences Center	IDM
Penny Haskins, PhD	Radiation Technologies Incorporated	ONC
David B. Haslam, MD	Washington University	IDM
Patrick A. Haslett, MB, MD	University of Miami School of Medicine	BPC
John R. Hassell, PhD	University of South Florida	BCS
Christopher J. Hasser, PhD	Intuitive Surgical	SRB
Daniel J. Hassett, PhD	University of Cincinnati	IDM
Anton N. Hasso, MD	University of California, Irvine	SRB
Reid Hastie, PhD	University of Colorado at Boulder	BBBP
Mardi C. Hastings, PhD	Ohio State University	IFCN
Teresa G. Hastings, PhD	University of Pittsburgh	BDCN, MDCN
David L. Hasty, PhD	University of Tennessee, Memphis	IDM
Tissa Hata, MD	University of California, San Diego	SRB
Marguerite Hatch, PhD	Ixion Biotechnology, Inc	MSD
Thomas P. Hatch, PhD	University of Tennessee Health Science Center	IDM
Graham F. Hatfull, PhD	University of Pittsburgh	IDM
Mary E. Hatten, PhD	The Rockefeller University	BDCN
Jimmi C. Hatton-Kolpek	University of Kentucky	BDCN
Emily J. Hauenstein, PhD	University of Virginia	RPHB
Craig A. Hauser, PhD	Burnham Institute	ONC
Frank M. Hauser, PhD	State University of New York at Albany	BPC
Joshua M. Hauser, MD	Northwestern University Medical School	HOP
Robert P. Hausinger, PhD	Michigan State University	BPC
Michael J. Haut, MD	University of Pennsylvania	CVS
Sheryl Haut, MD	Montefiore Medical Center	BDCN
Wendy L. Havran, PhD	Scripps Research Institute	IMM
Michael J. Hawken, PhD	New York University	IFCN
Richard Hawkes, PhD	University of Calgary	MDCN
Robert A. Haworth, PhD	University of Wisconsin	CVS
Lesleyann Hawthorn, PhD	Roswell Park Cancer Institute	ONC
John G. Hay, MB, MD	New York University School of Medicine	ONC
John I. Hay, PhD	State University of New York at Buffalo	MSD
Meredith Hay, PhD	University of Missouri	CVS
Nissim Hay, PhD	University of Illinois at Chicago	CDF, ONC
Adele M. Hayes, PhD	University of Miami	BBBP
Cecil E. Hayes, PhD	University of Washington	SRB
Mary M. Hayhoe, PhD	University of Rochester	BBBP

Bert Hayslip, PhD	University of North Texas	RPHB
Mark D. Hayward, PhD	Pennsylvania State University, University Park	HOP
Gerald L. Hazelbauer, PhD	University of Missouri, Columbia	IDM
Kevin C. Hazen, PhD	University of Virginia	AARR
Daria J. Hazuda, PhD	Merck Research Laboratories	AARR
Bin He, PhD	University of Minnesota, Twin Cities	SRB
Jiang He, MD, PhD	Tulane University	HOP
Tong-Chuan He, MD, PhD	University of Chicago Medical Center	ONC
Patrick J. Heagerty, PhD	University of Washington	HOP
Catherine A. Heaney, PhD	Ohio State University	HOP
Andrew C. Heath, PhD	Washington University School of Medicine	HOP
Todd F. Heatherton, PhD	Dartmouth College	RPHB
Ulrike A. Heberlein, PhD	University of California, San Francisco	IFCN
James R. Hebert, ScD	University of South Carolina at Columbia	HOP
David W. Hecht, MD	Loyola University Medical School	IDM
Diane E. Heck, PhD	Rutgers University College of Pharmacy	PPS
James G. Hecker, MD, PhD	University of Pennsylvania	BCS
Jutta Heckhausen, PhD	University of California, Irvine	HOP
Charles J. Heckman, PhD	Northwestern University	IFCN, MSD
Timothy G. Heckman, PhD	Ohio University	AARR
Matthias A. Hediger, PhD	Brigham and Women's Hospital	PPS
Marc H. Hedrick, MD	Macropore	MSD
Lora H. Hedrick-Ellenson, MD	Weill Medical College of Cornell University	ONC
Lizbeth K. Hedstrom, PhD	Brandeis University	BPC
Barbara G. Heerdt, PhD	Montefiore Medical Center	ONC
Cheryl M. Heesch, PhD	University of Missouri	PPS
Fred L. Heffron, PhD	Oregon Health and Science University	AARR
Craig Anne Heflinger, PhD	Vanderbilt University	RPHB
Ashok N. Hegde, PhD	Wake Forest University Health Sciences	IFCN
George D. Hegeman, PhD	Indiana University	IDM
Tom K. Hei, PhD	Columbia University College of Physicians and Surgeons	ONC
Mich B. Hein, PhD	Epigen Pharmaceutical, Inc	AARR
Henry Heine, PhD	United States Army Medical Research Institute of Infectious Diseases	IDM
Allen W. Heinemann, PhD	Rehabilitation Institute Research Corporation	RPHB
Mary M. Heinricher, MD, PhD	Oregon Health and Science University	IFCN
Nicholas H. Heintz, PhD	University of Vermont	BCS
Robert A. Heinzen, PhD	University of Wyoming	IDM
James F. Hejtmancik, MD, PhD	National Eye Institute	BDCN
Kathryn D. Held, PhD	Massachusetts General Hospital	ONC
Vicki S. Helgeson, PhD	Carnegie Mellon University	RPHB
Deborah Helitzer, PhD, ScD	University of New Mexico	HOP
Johannes W. Hell, PhD	University of Iowa	MDCN
Morton A. Heller, PhD	Eastern Illinois University	MDCN, RPHB
Richard Heller, PhD	RMR Technologies, LLC	IDM, ONC
Wendy Heller, PhD	University of Illinois at Urbana-Champaign	BDCN
Marc K. Hellerstein, MD, PhD	Kinemed, Inc	AARR
Deborah Hellman, JD	University of Maryland	GNS
Wayne J. Hellstrom, MD	Tulane University	MSD
Gregory A. Helm, MD, PhD	University of Virginia	MSD
John D. Helmann, PhD	Cornell University	IDM
John E. Helzer, MD	University of Vermont	HOP
Cynthia L. Hemenway, PhD	North Carolina State University	IDM
David R. Hemenway, PhD	University of Vermont and State Agricultural College	PPS
Martin E. Hemler, PhD	Dana-Farber Cancer Institute	CDF
Hugh C. Hemmings, MD, PhD	Weill Medical College of Cornell University	SRB
Andrew J. Henderson, PhD	Pennsylvania State University	IMM
Douglas P. Henderson, PhD	University of Texas of The Permian Basin	IDM
Eric R. Henderson, PhD	Bioforce Nanosciences, Inc	BPC
George I. Henderson, PhD	University of Texas Health Science Center	AARR
Janet E. Henderson, PhD	McGill University Health Center	MSD

John M. Henderson, PhD	Michigan State University	BBBB
Leslie P. Henderson, PhD	Dartmouth Medical School	MDCN
Scott C. Henderson, PhD	Mount Sinai School of Medicine	CDF
Joan C. Hendricks, DVM, PhD	University of Pennsylvania	PPS
Wayne A. Hendrickson, PhD	Columbia University College of Physicians and Surgeons	BCS
Mary J. Hendrix, DSc, PhD	University of Iowa	BDCN, CDF
David R. Hennings,	New Star Lasers, Inc	BDCN
Charles S. Henry, PhD	Colorado State University	BPC
Jonathan J. Henry, PhD	University of Illinois at Urbana-Champaign	BDCN
Ralph Henry, PhD	University of Arkansas	BCS
Diane M. Henschel, PhD	California State University, Dominguez Hills	IMM
Elizabeth P. Henske, MD	Fox Chase Cancer Center	BCS, MSD
Meenhard Herlyn, DSc, DVM	Wistar Institute	ONC
Brian A. Herman, MD, PhD	University of Texas Health Science Center	CDF
Ira M. Herman, PhD	Tufts University, Boston	CDF
James P. Herman, PhD	University of Cincinnati	IFCN
Michael A. Herman, PhD	Kansas State University	CDF
Wayne Herman, DDS	Medical College of Georgia	MSD
Bruce P. Hermann, PhD	University of Wisconsin	RPHB
Paul Hermonat, PhD	University of Arkansas For Medical Sciences	AARR
David N. Herndon, MD	University of Texas Medical Branch	SRB
Kevan C. Herold, MD	Columbia University	BPC, IMM
Guillermo A. Herrera, MD	Louisiana State University Health Sciences Center	MSD
Karl F. Herrup, MD, PhD	Case Western Reserve University	BBBB
Harvey R. Herschman, PhD	University of California, Los Angeles	CDF
Marc B. Hershenson, MD	University of Michigan	SRB
Edward H. Herskovits, MD, PhD	University of Pennsylvania	MDCN
William F. Hersman, PhD	Xenon Imaging Technologies	SRB
Hans Herweijer, PhD	Mirus Corporation	AARR
Uri Herzberg, DVM, PhD	Acorda Therapeutics, Inc	BDCN
Hanspeter Herzel, PhD	Humboldt University, Berlin	BBBB
Roland W. Herzog, PhD	Children's Hospital of Philadelphia	CVS, HEME
Thaddeus A. Herzog, PhD	H. Lee Moffitt Cancer Center and Research Institute	RPHB
Peter J. Hesketh, PhD	University of Illinois at Chicago	ONC
David C. Hess, MD	Medical College of Georgia	BDCN
Ellen J. Hess, PhD	Johns Hopkins University	IFCN
Jay L. Hess, MD, PhD	University of Pennsylvania	ONC
Thomas M. Hess, PhD	North Carolina State University	RPHB
Michie N. Hesselbrock, PhD	University of Connecticut, Storrs	HOP
Warren D. Heston, PhD	Cleveland Clinic Foundation	ONC
Hoby P. Hetherington, PhD	Yeshiva University	BDCN, SRB
Jamille F. Hetke	University of Michigan	MSD
John R. Hetling, PhD	University of Illinois at Chicago	MDCN
Robert L. Hettich, PhD	Oak Ridge National Laboratory	BPC
Fredrick W. Hetzel, JD, PhD	Healthone Alliance	ONC
Gustavo R. Heudebert, MD	University of Alabama at Birmingham	AARR
Sandra J. Hewett, PhD	University of Connecticut Health Center	MDCN
John K. Hewitt, PhD	University of Colorado	HOP
Erik L. Hewlett, MD	University of Virginia, Charlottesville	BPC, IDM
Emanuel B. Hey, PhD	Rutgers University	GNS
Steven B. Heymsfield, MD	St. Luke's-Roosevelt Institute For Health Sciences	NMS
Lyn Hibbard, PhD	Computerized Medical Systems, Inc	SRB
Richard D. Hichwa, PhD	University of Iowa	SRB
Anthony J. Hickey, DSc, PhD	University of North Carolina	BCS, BPC
William F. Hickey, MD, PhD	Dartmouth Medical School	BDCN
James J. Hickman, PhD	Hesperos, LLC	MDCN
Gregory S. Hickok, PhD	University of California, Irvine	BBBB
Noreen J. Hickok, PhD	Thomas Jefferson University	MSD
James W. Hicks, PhD	University of California, Irvine	PPS
Manuel Hidalgo, MD, PhD	Johns Hopkins University	ONC

Scott W. Hiebert, PhD	Vanderbilt University School of Medicine	ONC
Gary M. Hieftje, PhD	Indiana University, Bloomington	BPC
Jeff Higginbotham, PhD	State University of New York at Buffalo	BBBBP
Daniel A. Higgins, PhD	Kansas State University	BPC
Joseph J. Higgins, MD	Mid-Hudson Family Health Institute	BDCN
Kent Higgins, PhD	Lighthouse International	IFCN
Maureen B. Higgins, PhD	Boys Town National Research Hospital	HOP
Stephen T. Higgins, PhD	University of Vermont	BBBBP
William E. Higgins, PhD	Endographics Imaging Systems, Inc	SRB, IMM
Charles F. Hildebolt, DDS, PhD	Washington University School of Medicine	MSD
William H. Hildebrand, PhD	University of Oklahoma Health Sciences Center	AARR
Alan S. Hillibrand	Thomas Jefferson University	MSD
Alice Hill, PhD	University of Texas	HOP
Ann B. Hill, MB, PhD	Oregon Health and Science University	IMM
Christopher P. Hill, DPH	University of Utah	BPC
Daniell B. Hill, MD	University of Louisville	PPS
David E. Hill, PhD	Dana-Farber Cancer Institute	IMM
Herbert H. Hill, PhD	Washington State University	BPC
Joseph Addison Hill, MD, PhD	University of Texas Southwestern Medical Center at Dallas	PPS
Richard P. Hill, PhD	University of Toronto	ONC
Shirley Y. Hill, PhD	University of Pittsburgh	HOP
Cecilia J. Hillard, PhD	Medical College of Wisconsin	ONC
Julia K. Hilliard, PhD	Georgia State University	AARR
George V. Hillyer, PhD	American Society of Tropical Medicine and Hygiene	IDM
P. Anne Hiltner, PhD	Case Western Reserve University	MSD
Mark K. Hinders, PhD	College of William and Mary	MSD
Mary Christina Hines, PhD	University of Missouri, Kansas City	HOP
Michael L. Hines, PhD	Yale University	MDCN
Jenny E. Hinshaw, PhD	Scripps Research Institute	CDF
Stephen P. Hinshaw, PhD	University of California	RPHB
Jack A. Hinson, PhD	University of Arkansas For Medical Sciences	PPS
David R. Hinton, MD	Doheny Eye Institute	CDF
Catarina E. Hioe, PhD	Veterans Affairs Medical Center	AARR
John A. Hipp, PhD	Medical Metrics, Inc	MSD
Joy Hirsch, PhD	Sloan-Kettering Institute For Cancer Research	IFCN
Joel N. Hirschhorn, MD, PhD	Children's Hospital, Boston	HOP
Karen K. Hirschi, PhD	Baylor College of Medicine	CVS, MSD, SRB
Jay Hirsh, PhD	University of Virginia	IFCN
Peter F. Hitchcock, PhD	University of Michigan Kellogg Eye Center	MDCN
Walter N. Hittelman, PhD	University of Texas M.D. Anderson Cancer Center	GNS
Robert J. Hitzemann, PhD	Oregon Health and Science University	BDCN
Brian L. Hjelle, MD	University of New Mexico, Albuquerque	IDM
Vladimir Hlady, DSc, PhD	University of Utah	SRB
Michael P. Hlastala, PhD	University of Washington	PPS
William S. Hlavacek	Los Alamos National Laboratory	IMM
Donald J. Hnatowich, PhD	North Shore-Long Island Jewish Research Institute	ONC
Chien Ho, PhD	Carnegie Mellon University	BPC
Gloria Y. Ho, PhD	Albert Einstein College of Medicine, Yeshiva University	HOP
Shuk-Mei Ho, PhD	University of Massachusetts Medical School, Worcester	ENR, NMS
Vivian H. Ho, PhD	University of Alabama at Birmingham	HOP
Wenzhe Ho, MD	Children's Hospital of Philadelphia	AARR
Winston Z. Ho, PhD	Maxwell Sensors, Inc	IDM
John V. Hobday	Healthcare Interactive, Inc	BBBBP
Oliver Hobert, PhD	Columbia University	MDCN
James A. Hoch, PhD	Scripps Research Institute	IDM
Sallie O. Hoch, PhD	La Jolla Institute For Molecular Medicine	BCS
Marc C. Hochberg, MD, PhD	University of Maryland School of Medicine	MSD
Ann Hochschild, PhD	Harvard University Medical School	IDM
Robin M. Hochstrasser, PhD	University of Pennsylvania	BCS, BPC
David M. Hockenbery, MD	Fred Hutchinson Cancer Research Center	AARR, MDCN

Denise C. Hocking, PhD	University of Rochester	MSD
Thomas W. Hodge, PhD	Centers For Disease Control and Prevention	AARR
Peter E. Hodges	Incyte Corporation	IDM
David C. Hodgins, PhD	University of Calgary	RPHB
David G. Hoel, PhD	Medical University of South Carolina	HOP
Jennifer A. Hoeting, PhD	Colorado State University	HOP
Patrick R. Hof, MD	Mount Sinai School of Medicine	BDCN, MDCN
Erika Hoff, PhD	Florida Atlantic University	BBBP
Brian M. Hoffman, MD, PhD	Northwestern University	BPC
Eric P. Hoffman, PhD	University of Pittsburgh	MSD
James E. Hoffman, PhD	University of Delaware	BBBP
Paula L. Hoffman, PhD	University of Colorado Health Sciences Center	IFCN
Robert M. Hoffman, PhD	Anticancer, Inc	GNS
Timothy Hoffman, PhD	University of Missouri, Columbia	ONC
Diane Hoffman-Kim, PhD	Brown University	MSD
Diane E. Hoffmann, JD	University of Maryland School of Law	HOP
Cory M. Hogaboam, PhD	University of Michigan	IMM
Michael C. Hogan, PhD	University of California, San Diego	PPS
Kristin A. Hogquist, PhD	University of Minnesota	BPC
Carol C. Hogue, PhD	University of North Carolina	MSD
Elizabeth L. Hohmann, MD	Massachusetts General Hospital	AARR
James A. Hokanson, PhD	University of Texas Medical Branch	CVS, HOP
Henry H. Holcomb, MD	University of Maryland	BBBP, BDCN
William Holcomb, MD	St. Louis University	BBBP
David B. Holiday, PhD	University of Texas Health Center at Tyler	HOP
John K. Holland	Lifelink Monitoring, Inc	RPHB
Peter C. Holland, PhD	Johns Hopkins University	BBBP
Scott K. Holland, PhD	Children's Hospital Medical Center, Cincinnati	SRB
Michael I. Hollander, PhD	Talaria, Inc	RPHB
Peter J. Hollenbeck, PhD	Purdue University, West Lafayette	CDF
Jeffrey O. Hollinger, DDS, PhD	Oregon Health and Science University	PPS
Michael A. Hollingsworth, PhD	University of Nebraska Medical Center	ONC
Nancy M. Hollingsworth, PhD	State University of New York at Stony Brook	IDM
Scott J. Hollister, PhD	University of Michigan at Ann Arbor	MSD
William L. Holman, MD	University of Alabama at Birmingham	SRB
Gregory L. Holmes, MD	Dartmouth College	BDCN
Kevin L. Holmes, PhD	National Institute of Allergy and Infectious Diseases	CVS, HEME
Ross P. Holmes, PhD	Wake Forest University Health Sciences	MSD
Margaret M. Holmes-Rovner, PhD	Michigan State University	GNS
Cheryl L. Holt, PhD	St. Louis University	RPHB
Jeffrey R. Holt, PhD	University of Virginia	IFCN
Stanley C. Holt, PhD	Forsyth Institute	MSD
Victoria L. Holt, PhD	Fred Hutchinson Cancer Research Center	HOP
Kristen D. Holtz, PhD	Danya International, Inc	BBBP
Erika L. Holzbaaur, PhD	University of Pennsylvania	CDF
William L. Holzemer, PhD	University of California, San Francisco	AARR
Lawrence B. Holzman, MD	University of Michigan	MSD
Vasant G. Honavar, PhD	Iowa State University	BPC
Christopher N. Honda, PhD	University of Minnesota, Twin Cities	CVS, IFCN
Robert W. Hone	Red Hill Studios	BBBP, GNS
Allen L. Honeyman, PhD	University of South Florida	IDM
Jun-Yan Hong, PhD	University of Medicine and Dentistry of New Jersey	PPS
Donald C. Hood, PhD	Columbia University	CDF
Linda J. Hood, PhD	Louisiana State University Health Sciences Center, New Orleans	IFCN
David L. Hoover, MD	Walter Reed Army Institute of Research	AARR
Edward A. Hoover, DVM, PhD	Colorado State University	IDM
Debra A. Hope, PhD	University of Nebraska, Lincoln	BBBP
Ulrich Hopfer, MD, PhD	Case Western Reserve University	CVS
Nancy H. Hopkins, PhD	Massachusetts Institute of Technology	GNS, ONC
Charles L. Hoppel, MD, PhD	Case Western Reserve University	MSD

Bruce F. Horazdovsky, PhD	Mayo Clinic, Rochester	CDF
Kenneth W. Horch, PhD	University of Utah	MSD
Steven C. Horii, MD	University of Pennsylvania	SRB
John P. Horn, PhD	University of Pittsburgh	CVS
Joseph P. Hornak, PhD	Rochester Institute of Technology	SRB
Sharon D. Horner, PhD	University of Texas at Austin	HOP
Mark C. Horowitz, PhD	Yale University School of Medicine	MSD
Tibor Hortobagyi, PhD	National Institute of Neurological Disorders and Stroke	PPS
William A. Horton, MD, PhD	Oregon Health and Science University	HOP
Richard Horuk, PhD	Berlex Biosciences, Inc	MDCN
Tamas L. Horvath, DVM, PhD	Yale University	IFCN
Joseph Horwitz, PhD	University of California, Los Angeles	BDCN
Jeffrey D. Hosenpud, MD	Sinai Samaritan Medical Center	CVS
James D. Hosking, PhD	University of North Carolina, Chapel Hill	BPC
Ramachandra S. Hosmane, PhD	University of Maryland	AARR
John Hossack, PhD	University of Virginia, Charlottesville	SRB
Karl Y. Hostetler, MD	Veterans Medical Research Foundation, San Diego	IDM
Richard S. Hotchkiss, MD	Washington University	SRB
Charles Z. Hotz, PhD	Quantum Dot Corporation	BPC
Ya-Ming, Hou, PhD	Thomas Jefferson University	IDM
Lindsay Hough, PhD	Albany Medical College	IFCN
Janet A. Houghton, PhD	St. Jude Children's Research Hospital	ONC
John D. Houle, PhD	University of Arkansas For Medical Sciences	BDCN
Joseph A. Houmard, PhD	East Carolina University	MSD
Thomas A. Hought, PhD	Florida State University	IFCN
David E. Housman, PhD	Massachusetts Institute of Technology	GNS
Vern L. Houston, PhD	East River Research Corporation of New York	MSD
Melbourne F. Hovell, PhD	San Diego State University	RPHB
Andrew J. Howard, PhD	Illinois Institute of Technology	BPC
George Howard, DPH, DrPH	University of Alabama	HOP
Guy A. Howard, PhD	University of Miami School of Medicine	MSD
Pamela S. Howard, PhD	University of Pennsylvania	MSD
George W. Howe, PhD	George Washington University	BBBP
Robert D. Howe, PhD	Harvard University	SRB
Kathryn E. Howell, PhD	University of Colorado Health Sciences Center	CDF
Carollee Howes, PhD	University of California, Los Angeles	RPHB
Howard C. Howland, PhD	Cornell University, Ithaca	MDCN
James A. Hoxie, MB, MD	University of Pennsylvania	AARR
Patricia B. Hoyer, MD, PhD	University of Arizona	ENR
William J. Hoyer, PhD	Syracuse University	BBBP
James B. Hoying, MD, PhD	University of Arizona	MSD
Rick H. Hoyle, PhD	University of Kentucky	RPHB
Dennis E. Hruby, MD, PhD	Siga Technologies, Inc	AARR
Connie C. W. Hsia, MD	University of Texas Southwestern Medical Center at Dallas	PPS
Chih-Lin Hsieh, MD, PhD	University of Southern California	ONC
Chung Y. Hsu, MD, PhD	Washington University	BDCN
Bingren Hu, MD, PhD	University of Miami School of Medicine	BDCN
Shiu-Lok Hu, PhD	University of Washington	AARR
Wei-Shou Hu, PhD	University of Minnesota	CDF
Qing-Xin Hua, PhD	Case Western Reserve University	BPC
H. K. Huang, DSc	University of Southern California	SRB
Li-Yen M. Huang, PhD	University of Texas Medical Branch at Galveston	IFCN
Paul L. Huang, MD, PhD	Massachusetts General Hospital	BDCN
Peng Huang, PhD	Medical University of South Carolina	BDCN, ONC
Ru-Chih C. Huang, PhD	Johns Hopkins University	AARR
Sung-Cheng Huang, DSc	University of California, Los Angeles	SRB
Ting-Ting Huang, PhD	University of California, San Francisco	MDCN
Ziwei Huang, PhD	University of Illinois at Urbana-Champaign	AARR
Johnny Huard, MD, PhD	Children's Hospital, Pittsburgh	MSD
Ann L. Hubbard, PhD	Johns Hopkins University School of Medicine	PPS

Sally A. Huber, PhD	University of Vermont	CVS
Rolf D. Hubmayr, MD	Mayo Clinic, Rochester	PPS
Bernard Hudgins, PhD	University of New Brunswick	MSD
Karen S. Hudmon, DRPH	University of California, San Francisco	RPHB
Laurie G. Hudson, PhD	University of New Mexico Health Sciences Center	MSD, ONC
Melissa M. Hudson, MD	St. Jude Children's Research Hospital	PPS
Richard R. Hudson, PhD	University of Chicago	CDF, GNS
Jeffrey A. Hughes	University of Florida	BCS
John R. Hughes, MD	University of Vermont College of Medicine	BBBP
Kelly T. Hughes, PhD	University of Washington	IDM
Richard E. Hughes, PhD	University of Michigan	SRB
Thomas E. Hughes, PhD	Yale University	MDCN
Jaqueline M. Hughes-Oliver, PhD	North Carolina State University	HOP
John R. Huguenard, PhD	Stanford University	BDCN
George S. Hui, PhD	University of Hawaii at Manoa	AARR
Sek Wen Hui, PhD	Roswell Park Cancer Institute	BCS, CDF, GNS
Jon M. Huibregtse, PhD	University of Texas	IDM
David Huizinga, PhD	University of Colorado	RPHB
Elaine M. Hull, PhD	State University of New York at Buffalo	IFCN
Debra Hullett, PhD	University of Wisconsin, Madison	MSD
Claire E. Hulsebosch, PhD	University of Texas Medical Branch	BDCN
Scott J. Hultgren, PhD	Washington University	IDM, MSD
Michael L. Hultner, PhD	Anatomix, Inc	MSD
Robert A. Hummer, PhD	University of Texas at Austin	HOP
Mary L. Hummert, PhD	University of Kansas, Lawrence	RPHB
Gregory Hundley, MD	Wake Forest University	CVS
Clark T. Hung, PhD	Columbia University	CDF
George K. Hung, PhD	Rutgers University	SRB
Mien-Chie Hung, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Arthur G. Hunt, PhD	University of Kentucky	BCS
Geoffrey P. Hunt, PhD	Scientific Analysis Corporation	HOP
Jeffrey H. Hunt, PhD	The Boeing Company	BDCN
Kelly K. Hunt, MD	University of Texas M.D. Anderson Cancer Center	ONC
Amy J. Hunter, PhD	Physical Sciences, Inc	HOP
Christopher A. Hunter, PhD	University of Pennsylvania	AARR
Eric Hunter, PhD	University of Alabama at Birmingham	AARR
Lawrence E. Hunter, PhD	University of Colorado Health Sciences Center	IFCN
Robert L. Hunter, MD, PhD	University of Texas Health Science Center, Houston	AARR
Tony R. Hunter, PhD	Salk Institute For Biological Studies	BCS
Ernst B. Hunziker, MD	University of Bern	MSD
Patrick Hurban, PhD	Paradigm Genetics, Inc	BPC
David L. Hurley, PhD	Tulane University	NMS
James B. Hurley, PhD	University of Washington	CDF
James H. Hurley, PhD	National Institutes of Health	CDF
Patricia D. Hurn, PhD	Oregon Health and Science University	HOP
Robert E. Hurst, PhD	University of Oklahoma	MSD, ONC
Barry E. Hurwitz, PhD	University of Miami	MSD
Julia L. Hurwitz, PhD	St. Jude Children's Research Hospital	AARR
Donna M. Huryn, PhD	Hoffmann-Laroche Inc	BPC
Mustafa M. Husain, MD	University of Texas Southwestern Medical Center at Dallas	BBBP
Andrea M. Hussong, PhD	University of North Carolina, Chapel Hill	HOP
Aletha C. Huston, PhD	University of Texas at Austin	HOP
Gary D. Hutchins, PhD	Indiana University-Purdue University, Indianapolis	SRB
Florence N. Hutchison, MD	Medical University of South Carolina	MSD
Lindsey M. Hutt-Fletcher, PhD	Louisiana State University Health Sciences Center, Shreveport	GNS
Michael L. Hutton, PhD	Mayo Clinic, Rochester	MDCN
Reinhold J. Hutz, PhD	University of Wisconsin, Milwaukee	PPS
David R. Hyde, PhD	University of Notre Dame	CDF
Nola M. Hylton, PhD	University of California, San Francisco	SRB
Leslie G. Hyman, PhD	State University of New York at Stony Brook	HOP

Wesley C. Hymer, PhD	Pennsylvania State University	SRB
George W. Hynd, Edd	Purdue University	HOP
Kullervo H. Hynynen, PhD	Brigham and Women's Hospital	SRB
Lorraine M. Iacovitti, MD, PhD	Thomas Jefferson University Medical College	BDCN
Nicholas S. Ialongo, PhD	Johns Hopkins University	HOP
Joseph Ibrahim, PhD	University of North Carolina, Chapel Hill	HOP
Larry D. Icard, PhD	Temple University	AARR
Jeanette Ickovics, PhD	Yale University	AARR
Bette A. Ide, PhD	University of North Dakota	IMM
Trey Ideker, PhD	University of California, San Diego	MDCN
Barbara H. Iglewski, PhD	University of Rochester	IDM
Nicholas P. Illsley, PhD	University of Medicine and Dentistry of New Jersey	ENR
Amjad A. Ilyas, PhD	University of Medicine and Dentistry of New Jersey	BDCN
James A. Inciardi, PhD	University of Delaware	RPHB
Heidi M. Inderbitzen-Nolan, PhD	University of Nebraska, Lincoln	BBBP
Anthony J. Infante, MD, PhD	University of Texas Health Science Center at San Antonio	BPC
Robin R. Ingalls, MD	Boston Medical Center	IDM
Rick E. Ingram, PhD	Southern Methodist University	BBBP
Michael F. Insana, PhD	University of California, Davis	SRB
Yiannis A. Ioannou, PhD	Mount Sinai School of Medicine	BCS
Renato V. Iozzo, MD, PhD	Thomas Jefferson University	BCS
Clement C. Ip, PhD	Roswell Park Cancer Institute	NMS
Khalid Iqbal, PhD	Institute For Basic Research In Developmental Disabilities	BDCN
Gail Ironson, MD, PhD	University of Miami, Coral Gables	AARR
Charles G. Irvin, PhD	University of Vermont	PPS
David E. Irwin, PhD	University of Illinois	BBBP
Melinda L. Irwin, PhD	Yale University	HOP
Michael R. Irwin, MD, PhD	University of California, Los Angeles	BDCN
Leleng Isaacs, PhD	Goucher College	IMM
Stuart N. Isaacs, MD	University of Pennsylvania	AARR, IDM
David Isaacson, PhD	Rensselaer Polytechnic Institute	SRB
Lori G. Isaacson, PhD	Miami University	BDCN
Ehud Y. Isacoff, PhD	University of California, Berkeley	MDCN
Ole Isacson, MD	McLean Hospital (Belmont, MA)	BDCN
Carlos M. Isales, MD	Medical College of Georgia	ENR
Grazia Isaya, MD, PhD	Mayo Clinic, Rochester	MSD
Harry Ischiropoulos, PhD	Children's Hospital of Philadelphia	BDCN
Mohammad Ishaq, PhD	Science Applications International Corp	PPS
Bruce M. Ishimoto	Ocumetrics, Inc	BDCN
Harriet C. Isom, PhD	Pennsylvania State University College of Medicine	ONC
Charles J. Issel, DVM, PhD	University of Kentucky	AARR
Rivkah R. Isseroff, MD	University of California, Davis	PPS
Tiffany A. Ito, PhD	University of Colorado	RPHB
P. Michael Iuvone, PhD	Emory University	CDF
L. Louise Ivanov, PhD	University of Virginia, Charlottesville	CDF
Makio Iwashima, PhD	Institute of Molecular Medicine and Genetics	IMM
Brian A. Iwata, PhD	Kennedy Institute For Handicapped Children	BBBP
Srinivas R. Iyengar, PhD	Mount Sinai School of Medicine	BPC
Sudha K. Iyengar, PhD	Case Western Reserve University	MSD
Sriram Sadasivan Iyer, MD	Lenox Hill Heart and Vascular Institute	SRB
Joseph A. Izatt, PhD	Duke University	SRB
Clifford R. Jack, MD	Mayo Clinic, Rochester	BDCN
Denise Jackson, PhD	Northeastern University	PPS
John M. Jackson	University of Virginia School of Medicine	RPHB
James W. Jacobberger, PhD	Case Western Reserve University	CVS
Bertram L. Jacobs, DSc, PhD	Arizona State University	IDM
Christopher R. Jacobs, PhD	Stanford University	MDCN
Robert A. Jacobs, PhD	University of Rochester	BBBP
Russell E. Jacobs, PhD	California Institute of Technology	MDCN
Leslie K. Jacobsen, MD	Yale University	BDCN

Paul B. Jacobsen, PhD	University of South Florida	RPHB
Steve J. Jacobsen, MD	Mayo Clinic, Rochester	HOP
Marcelo Jacobs-Lorena, PhD	Johns Hopkins University	IDM
Sandra W. Jacobson, PhD	Wayne State University	RPHB
David B. Jacoby, MD	Oregon Health and Science University	PPS
Robert O. Jacoby, DVM, PhD	Yale University School of Medicine	ONC
Geoffrey M. Jacquez, PhD	Biomedware	HOP
Judith A. Jaehning, PhD	University of Colorado Health Sciences Center	CDF, IDM
Rudolf Jaenisch, MD	Center For Genome Research	ENR
Ayad A. Jaffa, PhD	Medical University of South Carolina	CVS
David B. Jaffe, PhD	University of Texas at San Antonio	IFCN
Michael P. Jaffe, PhD	New Jersey Institute of Technology	BPC
Elizabeth M. Jaffee, MD, PhD	Johns Hopkins School of Medicine	IMM
David A. Jaffray, PhD	University of Toronto	ONC
Saleet Jafri, PhD	George Mason University	BPC
Pudur Jagadeeswaran, PhD	University of Texas Health Science Center	HEME
H. V. Jagadish, PhD	University of Michigan	BPC
Chinnaswamy Jagannath, PhD	University of Texas Health Science Center, Houston	AARR, IDM
Ajay N. Jain, PhD	University of California, San Francisco	MDCN
Sushil K. Jain, PhD	Louisiana State University Medical Center	CVS
John M. Jakicic, PhD	University of Pittsburgh	RPHB
Rex M. Jakobovits, PhD	Vivalog, LLC	MDCN
Thomas Jakobs,	Invotek, Inc	MSD
Lorna Jakobson, PhD	University of Manitoba	BBBP
Anthony A. James, PhD	University of California, Irvine	IDM
Charles D. James, PhD	Mayo Clinic, Rochester	BDCN
Keith James, PhD	Colorado State University	HOP
Curtis D. Jamison, PhD	George Mason University	BPC, GNS, MDCN, PPS, SRB
Russell D. Jamison, PhD	University of Illinois at Urbana-Champaign	MSD
Larry D. Jamner, PhD	University of California, Irvine	BBBP
Joseph S. Janicki, PhD	Auburn University	CVS
Aaron J. Janowsky, PhD	Oregon Health and Science University	BDCN
Jeri S. Janowsky, PhD	Oregon Health and Science University	IFCN
Craig T. January, MD, PhD	University of Wisconsin, Madison	CVS
Robin B. Jarrett, PhD	University of Texas Southwestern Medical Center at Dallas	BBBP
Martin F. Jarrold, PhD	Indiana University, Bloomington	BPC
Daniel G. Jay, PhD	Tufts University, Boston	IFCN
Gregory D. Jay, MD, PhD	Plethlogic	MSD
Dn Jayasimha, PhD	Intel Corporation	BPC
Donna B. Jeffe, PhD	Washington University	HOP
Robert W. Jeffery, MD, PhD	University of Minnesota, Twin Cities	RPHB
Pamela Jeffries,	Academic Edge, Inc	HOP
Patricia S. Jeng, PhD	Mimosa Acoustics	IFCN
Alicia J. Jenkins, MD	Medical University of South Carolina	SRB
Daniel M. Jenkins, PhD	University of Hawaii at Manoa	BPC
Marc K. Jenkins, PhD	University of Minnesota	IMM
Robert B. Jenkins, MD, PhD	Mayo Clinic, Rochester	BDCN
Roger L. Jenkins, MD	Lahey Clinic	BPC
Annette Jenner, PhD	College of The Holy Cross	BBBP
Patricia A. Jennings, PhD	University of California, San Diego	BPC
Gordon L. Jensen, MD, PhD	Vanderbilt University	NMS
Jeffrey L. Jensen, MD	Medefficiency, Inc	MSD
Jens H. Jensen, PhD	New York University School of Medicine	SRB
Robert L. Jernigan, PhD	National Cancer Institute	BPC
Terry L. Jernigan, PhD	Veterans Medical Research Foundation, San Diego	MDCN
Thomas R. Jerrells, PhD	University of Nebraska Medical Center	PPS
D. Joseph Jerry, PhD	University of Massachusetts, Amherst	ONC
Ann E. Jerse, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	IDM
Arthur H. Jeske, DMD, PhD	University of Texas Health Science Center, Houston	MSD

J. M. Jessup, MD	Georgetown University	ONC
James V. Jester, PhD	University of Texas Southwestern Medical Center at Dallas	MDCN
William R. Jewell, MD	University of Kansas Medical Center	ONC
Anahid Jewett, PhD	University of California, Los Angeles	IMM
Haifeng Ji, PhD	Louisiana Tech University	BPC
Huabei Jiang, PhD	Clemson University	SRB
Xi Jiang, PhD	Children's Hospital Medical Center, Cincinnati	CDF, IDM
Hong Jin, PhD	Medimmune Vaccines, Inc	AARR
Hanjoong Jo, PhD	Georgia Tech and Emory University	CVS
Lynn A. Joens, PhD	Anicure, LLC	IDM
Hadine Joffe, MD	Massachusetts General Hospital	BBBP
Richard S. Johannes, MD	Cardinal Health Information Companies	SRB
Jorgen Johansen, PhD	Iowa State University	MDCN
Josephine M. Johns, PhD	University of North Carolina	BBBP
Margaret A. Johns, PhD	University of Massachusetts, Boston	MSD
Blair T. Johnson, PhD	University of Connecticut, Storrs	RPHB
Bruce D. Johnson, PhD	Mayo Clinic, Rochester	PPS
Bryon D. Johnson, PhD	Medical College of Wisconsin	ONC
Candace S. Johnson, MD, PhD	Roswell Park Cancer Institute	ONC
Carey K. Johnson, PhD	University of Kansas, Lawrence	BPC
Chris A. Johnson, PhD	Emanuel Hospital and Health Center	IFCN
David L. Johnson, PhD	University of Oklahoma	HOP
Donald R. Johnson, PhD	University of Nebraska Medical Center	IMM
Douglas H. Johnson, MD	Mayo Clinic, Rochester	BDCN
Edward M. Johnson, PhD	Mount Sinai School of Medicine	AARR
Eric A. Johnson, PhD, ScD	University of Wisconsin	IDM
Eric S. Johnson, MD, PhD	Tulane University	HOP
G. Allen Johnson, PhD	Duke University Medical Center	SRB
Gail V. Johnson, PhD	University of Alabama	BDCN
Glyn Johnson, PhD	New York Medical College	SRB
James Johnson, PhD	University of Western Ontario	PPS
Jeannette L. Johnson, PhD	State University of New York at Buffalo	RPHB
Jeffrey A. Johnson, PhD	University of Wisconsin, Madison	MDCN
Kayla Hagman Johnson, PhD	University of Texas Southwestern Medical Center at Dallas	IDM
Kenneth O. Johnson, PhD	Johns Hopkins University	IFCN
Lynne L. Johnson, MD	Rhode Island Hospital (Providence, RI)	SRB
Michael K. Johnson, PhD	University of Georgia	BPC
Michael L. Johnson, PhD	University of Virginia Health System	CDF
Patricia J. Johnson, PhD	University of California, Los Angeles	IDM
Paul Johnson, MD, PhD	New England Regional Primate Research Center	AARR
Paul C. Johnson, PhD	University of California, San Diego	MSD
R. Paul Johnson, MD, PhD	New England Regional Primate Research Center	AARR
Richard J. Johnson, MD	University of Florida	CVS
Ross G. Johnson, PhD	University of Minnesota	MDCN
Stephen L. Johnson, PhD	Washington University	CDF
Steven W. Johnson, MD, PhD	Oregon Health and Science University	BDCN
Suzanne B. Johnson, PhD	Florida State University	RPHB
Timothy A. Johnson, PhD	University of North Carolina	SRB
Victoria A. Johnson, MD	University of Alabama at Birmingham	AARR
Michael D. Johnston	Interactive Illusions, Inc	RPHB
Roger G. Johnston, PhD	Los Alamos National Laboratory	SRB
Thomas P. Johnston, PhD	University of Missouri, Kansas City	HEME
Brian Johnstone, PhD	Case Western Reserve University	MSD
Rolf H. Joho, PhD	University of Texas Southwestern Medical Center at Dallas	MDCN
Douglas J. Jolly, PhD	Biomedica, Inc	GNS
Pauline E. Jolly, PhD	University of Alabama at Birmingham	AARR
Alun G. Jones, PhD	Harvard University Medical School	SRB
Bradley D. Jones, PhD	University of Iowa	IDM
Dean P. Jones, PhD	Emory University	BPC, CDF, PPS
Edward Jones, DPH, MD	Center For Neuroscience	MDCN

James F. Jones, MD	National Center For Infectious Diseases	MSD
Katherine A. Jones, PhD	Salk Institute For Biological Studies	AARR
Kathryn J. Jones, MD, PhD	Loyola University of Chicago	BDCN
Michael L. Jones, PhD	Shepherd Center	MSD
Robert L. Jones, PhD	Centers For Disease Control and Prevention	BPC
Stephen C. Jones, PhD	Allegheny-Singer Research Institute	BDCN
Colleen B. Jonsson, PhD	Southern Research Institute	AARR
Douglas E. Jorenby, PhD	University of Wisconsin, Madison	RPHB
Pedro A. Jose, MD, PhD	Georgetown University	CVS, PPS, MSD
Jeffrey I. Joseph, DO, MD	Thomas Jefferson University	SRB
Lee Josephson, PhD	Massachusetts General Hospital	ONC
Sue A. Joslyn, PhD	University of Northern Iowa	HOP
Ernest N. Jouriles, PhD	Southern Methodist University	RPHB
Richard Jove, PhD	University of South Florida	IMM
Sebastian Joyce, PhD	Vanderbilt University	BPC, IMM
Michael J. Joyner, MD, PhD	Mayo Clinic, Rochester	PPS
Ralph C. Judd, PhD	University of Montana	AARR
Jae U. Jung, PhD	Harvard University Medical School	AARR
Ranu Jung, PhD	Arizona State University	PPS
Silvia S. Jurisson, PhD	University of Missouri	SRB
Lee J. Jussim, PhD	Rutgers University	RPHB
Louis B. Justement, PhD	University of Alabama at Birmingham	IMM
Judith Justice, PhD	University of California, San Francisco	RPHB
Malik E. Juweid, MD	University of Iowa College of Medicine	ONC
Stephen L. Kaattari, PhD	Virginia Institute of Marine Science	IMM
Glenn W. Kaatz, MD	Wayne State University	IDM
George W. Kabalka, PhD	University of Tennessee	ONC
Alexander V. Kabanov, PhD	University of Nebraska Medical Center	BCS
David Kabat, PhD	Oregon Health and Science University	AARR
Robert J. Kadner, PhD	University of Virginia	BCS, IDM
Bruce L. Kagan, PhD	University of California, Los Angeles School of Medicine	IDM
Laurie S. Kaguni, PhD	Michigan State University	BCS
Stephen G. Kahler, MD	Johns Hopkins Hospital	HOP
Charles E. Kahn, MD, PhD	Medical College of Wisconsin	BPC
Jeffrey P. Kahn, MD, PhD	University of Minnesota	GNS
Angel E. Kaifer, PhD	University of Miami, Coral Gables	SRB
Barbara L. Kail, PhD	Fordham University	RPHB
Robert V. Kail, PhD	Purdue University	BBBP
Zeev N. Kain, MD	Yale University	RPHB
Ann P. Kaiser, PhD	Vanderbilt University	BBBP
Murali-Krishna Kaja, PhD	University of Washington	AARR
Spyros A. Kalams, MD	Vanderbilt University	AARR
Melissa A. Kalarchian, PhD	Western Psychiatric Institute and Clinic	RPHB
Robert G. Kalb, MD	Yale University	MDCN
Seth C. Kalichman, PhD	University of Connecticut, Storrs	AARR
Ariel Kalil, PhD	University of Chicago	HOP
Charles W. Kalish, PhD	University of Wisconsin, Madison	BBBP
Peter W. Kalivas, PhD	Medical University of South Carolina	BBBP
Heidi J. Kalkwarf, PhD	Children's Hospital Medical Center, Cincinnati	MSD
Neville R. Kallenbach, PhD	New York University	BPC
Maria Kallergi, PhD	H. Lee Moffitt Cancer Center and Research Institute	SRB
Danny G. Kaloupek, PhD	Tufts University	BBBP
Ganjam V. Kalpana, PhD	Albert Einstein College of Medicine, Yeshiva University	AARR
Pushpa Kalra, PhD	University of Florida	ENR
V. S. Kalyanaraman, PhD	Advanced Bioscience Laboratories, Inc	AARR
Ramaswamy Kalyanasundaram, DVM, PhD	University of Illinois	AARR
M. Ilyas Kamboh, PhD	University of Pittsburgh	HOP
Roger D. Kamm, PhD	Massachusetts Institute of Technology	CVS
Candace M. Kammerer, PhD	University of Pittsburgh	CDF

Naoki Kamo, DSc	Hokkaido University	BPC
Yuet W. Kan, DSc, MB	University of California, San Francisco	GNS
Marty S. Kanarek, PhD	University of Wisconsin, Madison	HOP
Susan C. Kandarian, PhD	Boston University, Charles River Campus	MSD
Donald A. Kane, PhD	University of Rochester	CDF
Chris R. Kaneko, PhD	University of Washington	IFCN
Peter A. Kanetsky, PhD	University of Pennsylvania	HOP
Chulhee Kang, PhD	Washington State University	BPC
Sang-Moo Kang, PhD	Emory University	AARR
Y. J. Kang, DVM, PhD	University of Louisville School of Medicine	PPS
June K. Kan-Mitchell, PhD	Wayne State University	AARR
Michael R. Kanost, PhD	Kansas State University	IDM
Anumantha G. Kanthasamy, PhD	Iowa State University	BDCN
Stephen P. Kantrow, MD	Ochsner Clinic Foundation	AARR
Jagmeet S. Kanwal, PhD	Georgetown University Medical Center	IFCN
Chinghai Kao, PhD	Indiana University-Purdue University, Indianapolis	BSC
Joseph P. Kao, PhD	University of Maryland Biotechnology Institute	SRB
Weiyuan J. Kao, PhD	University of Wisconsin, Madison	CVS, MSD
Wen Hong Linda Kao, PhD	Johns Hopkins University	HOP
James B. Kaper, PhD	University of Maryland Baltimore Professional School	IDM
Alan M. Kaplan, PhD	University of Kentucky College of Medicine	ONC
Andrew H. Kaplan, MD, PhD	University of North Carolina, Chapel Hill	AARR
David L. Kaplan, PhD	Tufts University	BPC
Harvey Kaplan, PhD	University of Ottawa	IDM
Jack H. Kaplan, PhD	University of Illinois at Chicago	MDCN
Johanne Kaplan, PhD	Genzyme Corporation	AARR
Joshua M. Kaplan, MD, PhD	Massachusetts General Hospital	MDCN
Judith A. Kapp, PhD	Emory University	BDCN
Claudia T. Kappen, PhD	University of Nebraska Medical Center	BDCN
Ted J. Kaptchuk	Harvard University Medical School	CVS
Jaideep Kapur, MD, PhD	University of Virginia	BDCN
Vivek Kapur, PhD	University of Minnesota, Twin Cities	GNS, IDM
Daniel R. Kapusta, PhD	Louisiana State University Health Sciences Center, New Orleans	MSD
Njeri Karanja, PhD	Kaiser Foundation Research Institute	RPHB
Gregory S. Karczmar, PhD	Pritzker School of Medicine	SRB
Andrew Karellas, PhD	Emory University Hospital	SRB
Barry L. Karger, PhD	Northeastern University	BPC
Nadeem Y. Karimbux, DMD	Harvard University	MSD
Anna C. Karls, PhD	University of Georgia	IDM
Bernard Z. Karmel, PhD	Institute For Basic Research In Developmental Disabilities	BBBP
Sadashiva S. Karnik, PhD	Cleveland Clinic Foundation	CVS
Armand M. Karow, PhD	Medical College of Georgia	PPS
Peter D. Karp, PhD	SRI International	MDCN
Wali Karzai, PhD	State University of New York	IDM
Connie L. Kasari, PhD	University of California, Los Angeles	BBBP
Kathryn M. Kash, PhD	Thomas Jefferson University	RPHB
Fatah Kashanchi, PhD	George Washington University	AARR
Angela D. Kashuba	University of North Carolina, Chapel Hill	AARR
Sudha Kashyap, MBBS	Columbia University College of Physicians and Surgeons	ENR
David A. Kass, MD	Johns Hopkins University School of Medicine	CVS
Nancy E. Kass, ScD	Johns Hopkins University	AARR, RPHB
Robert S. Kass, PhD	Columbia University	CVS, PPS, HOP
S. Ghassan Kassab, PhD	University of California	SRB
Amin I. Kassis, MD, PhD	Harvard University Medical School	ONC
Judy A. Kassis, PhD	National Institutes of Health	GNS
W. Martin Kast, PhD	Loyola University	IMM
Gerald B. Kasting, PhD	Gordon Research Conferences	MSD
Adam J. Katz, MD	University of Virginia	MSD
Barry P. Katz, PhD	Indiana University-Purdue University, Indianapolis	IMM
David F. Katz, PhD	Duke University	NMS

Ira R. Katz, MD, PhD	University of Pennsylvania	BBBBP, HOP
Jonathan D. Katz, PhD	Children's Hospital Medical Center, Cincinnati	IMM
Lynn F. Katz, PhD	University of Washington	BBBBP
Martin L. Katz, PhD	University of Missouri	HOP
Steven J. Katz, MD	University of Michigan	HOP
David A. Katzenstein, MD	Stanford University	AARR
Laurence Katznelson, MD	Massachusetts General Hospital	MSD
David G. Kaufman, MD, PhD	University of North Carolina, Chapel Hill	ONC
Howard L. Kaufman, MD	Columbia University Health Science Center	ONC
Jonathan J. Kaufman, PhD	Cyberlogic, Inc	MSD
Kenton R. Kaufman, PhD	Mayo Clinic, Rochester	MSD
Marc J. Kaufman, PhD	McLean Hospital (Belmont, MA)	MDCN
Marc P. Kaufman, PhD	University of California, Davis	CVS, PPS
Randal J. Kaufman, PhD	University of Michigan at Ann Arbor	BCS
Christoph R. Kaufmann, MD	Legacy Emanuel Hospital	MDCN
Sanjiv Kaul, MD	University of Virginia Medical Center	CVS
Pravin T. Kaumaya, PhD	Ohio State University	AARR
Jonathan D. Kaunitz, MD	Brentwood Biomedical Research Institute	PPS
Michael P. Kavanaugh, PhD	University of Montana	MDCN
Thomas H. Kawula, PhD	University of North Carolina	GNS
Jonathan G. Kaye, PhD	Scripps Research Institute	IMM
Paul S. Kayne	Bristol-Myers Squibb Company	BCS
Hani Kayyali, PhD	Cleveland Medical Devices, Inc	BDCN
Marcelo G. Kazanietz, PhD	Center For Experimental Therapeutics	ONC
Hengming Ke, PhD	University of North Carolina, Chapel Hill	BPC
Elizabeth J. Keath, PhD	St. Louis University	IDM
Christine D. Keating, PhD	Pennsylvania State University	BPC
Susan F. Keay, MD, PhD	University of Maryland	BPC, MSD
Dean H. Kedes, MD, PhD	University of Virginia	AARR
Douglas H. Keefe, PhD	Sonicom, Inc	IFCN
Francis J. Keefe, PhD	Duke University Medical Center	RPHB
Kristen A. Keefe, PhD	University of Utah	IFCN
Emmet B. Keefe, MD	Stanford University Medical Center	AARR
Pamela K. Keel, PhD	University of Iowa	BBBBP
Carl L. Keen, PhD	University of California, Davis	ENR
James H. Keen, PhD	Thomas Jefferson University	CDF
Rachel Keen, PhD	University of Massachusetts	BBBBP
Kate Keenan, PhD	University of Chicago	BBBBP
Kathryn E. Keenan, PhD	University of Chicago	RPHB
Richard F. Keep, PhD	University of Michigan at Ann Arbor	BDCN
Kenneth C. Keiler, PhD	Pennsylvania State University, University Park	IDM
Rajeev Kelkar, PhD	Pro-Analysis, Inc	MSD
Joanne K. Kelleher, PhD	George Washington University	BPC
Asaf Keller, PhD	University of Maryland Baltimore Professional School	IFCN
Ann E. Kelley, PhD	University of Wisconsin, Madison	BBBBP, IFCN
Anne Myers Kelley, PhD	Kansas State University	BPC
Keith W. Kelley, PhD	University of Illinois	IFCN, IMM
Dean L. Kellogg, MD, PhD	University of Texas Health Science Center	MSD
Glen E. Kellogg, PhD	Virginia Commonwealth University	BPC
Ciaran P. Kelly, MB, MD	Beth Israel Deaconess Medical Center	IDM
Kevin M. Kelly, MD, PhD	Allegheny-Singer Research Institute	BDCN
Regis B. Kelly, PhD	University of California, San Francisco	MDCN
Thomas H. Kelly, PhD	University of Kentucky	BBBBP
Kimberly K. Kelly-Wintenberg, PhD	Atmospheric Glow Technologies, LLC	IDM
Sheryl F. Kelsey, PhD	University of Pittsburgh	CVS
Dacher J. Keltner, PhD	University of California	RPHB
William R. Kem, PhD	University of Florida	MDCN
Susan Kemper, PhD	University of Kansas, Lawrence	BBBBP
Kenneth S. Kendler, MD, PhD	Medical College of Virginia	HOP
Donald S. Kenkel, PhD	National Bureau of Economic Research	HOP

David N. Kennedy, PhD	Massachusetts General Hospital	MDCN
Holly P. Kennedy, PhD	University of Rhode Island	HOP
Katherine A. Kennedy, PhD	George Washington University	ONC
Ronald C. Kennedy, PhD	Texas Tech University	AARR, PPS
William P. Kennedy, PhD	Activmedia Robotics, Llc	MSD
Peter J. Kennelly, PhD	Virginia Polytechnic Institute and State University	BPC
Kenneth C. Kenney, PhD	La Familia Development	BBBP
Richard T. Kenney, MD	Iomai Corporation	AARR
Shannon C. Kenney, MD	University of North Carolina	AARR
W. Larry Kenney, PhD	Pennsylvania State University	MSD
George E. Kenny, PhD	University of Washington	IDM
Douglas T. Kenrick, PhD	Arizona State University	RPHB
Amy L. Kenter, PhD	Federation of American Societies For Experimental Biology	IMM
Earl R. Kern, PhD	University of Alabama at Birmingham	IDM
Francis Kern, PhD	Lexicon Genetics	ONC
Michael H. Kernis, PhD	University of Georgia	RPHB
Kathleen M. Kerr, PhD	University of Washington	GNS
Mary E. Kerr, PhD	University of Pittsburgh	HOP
Matcheri S. Keshavan, MD	Western Psychiatric Institute and Clinic	BBBP, BDCN
Raymond P. Kesner, PhD	University of Utah	BBBP
David H. Kessel, PhD	Wayne State University	ONC
Robert M. Kessler, MD	Vanderbilt University Medical Center	BDCN
Ellen Ketterson, PhD	Indiana University	BBBP
Robert S. Keynton, PhD	University of Louisville	MSD
W. Monroe Keyserling, PhD	University of Michigan	HOP
Morteza G. Khaledi, PhD	North Carolina State University, Raleigh	BPC
Partap S. Khalsa, DC, PhD	Stony Brook University	BBBP
Imtiaz A. Khan, PhD	Dartmouth College	AARR
Javed Khan, MD	National Cancer Institute	GNS, ONC
M. Firoze Khan, PhD	University of Texas Medical Branch at Galveston	PPS
Mehmood A. Khan, MD	Takeda Pharmaceuticals North America	NMS
Saleem A. Khan, PhD	University of Pittsburgh	IDM
Sepideh Khorasanizadeh, PhD	University of Virginia Health System	BPC
Chaitan S. Khosla, PhD	Stanford University	BPC, IDM
Taline V. Khroyan, PhD	SRI International	RPHB
Seema Khurana, PhD	University of Tennessee	PPS
Tejvir S. Khurana, MBBS, MD	University of Pennsylvania School of Medicine	MSD
Thomas Kieber-Emmons, PhD	University of Arkansas For Medical Sciences	AARR
Jeffrey W. Kiel, PhD	University of Texas Health Science Center	CDF
Tammy L. Kiellian, MD, PhD	University of Arkansas For Medical Sciences	BDCN
Sylvia M. Kiertscher, PhD	University of California, Los Angeles	ONC
John F. Kihlstrom, PhD	University of California, Berkeley	BBBP
Kristi L. Kiick, PhD	University of Delaware	MSD
Marie F. Kijewski, PhD, ScD	Brigham and Women's Hospital	SRB
Ron Kikinis, MD	Brigham and Women's Hospital	MDCN
John Kilama, PhD	Global Bioscience Development Institute	CDF
Paul E. Kilbride, PhD	Cythor	BDCN
Thomas S. Kilduff, PhD	SRI International	IFCN
Nigel P. Killeen, PhD	University of California, San Francisco	IMM
Marcia G. Killien, PhD	University of Washington	HOP
Dennis Killinger, PhD	University of South Florida	BBBP
Chang-Jin Kim, PhD	University of California, Los Angeles	BPC
Chong Kim, PhD	United States Environmental Protection Agency	PPS
Jae Ho Kim, MD, PhD	Henry Ford Hospital	ONC
Jeansok J. Kim, PhD	University of Washington	IFCN
Kwang Sik Kim, MD, PhD	Johns Hopkins University	IDM
Mimi Y. Kim, ScD	New York University	HOP
Seong-Gi Kim, PhD	University of Pittsburgh	SRB
William J. Kimberling, PhD	Father Flanagan's Boys' Home	MSD
Robert P. Kimberly, MD	University of Alabama at Birmingham	MSD

Deborah A. Kimbrell, PhD	University of California, Davis	IMM
Abby C. King, PhD	Stanford University School of Medicine	RPHB
Laura A. King, PhD	University of Missouri, Columbia	RPHB
Michael A. King, PhD	University of Massachusetts Medical School, Worcester	SRB
Richard A. King, MD, PhD	University of Minnesota	MSD
Stephen M. King, PhD	University of Connecticut	CDF
Robert E. Kingston, PhD	Massachusetts General Hospital	CDF
Vinayak Kini, DSc, PhD	Fluent Cardiovascular Solutions, Inc	SRB
Robin B. Kinnel, PhD	Hamilton College	BPC
John H. Kinney, PhD	University of California Lawrence Livermore National Laboratory	MSD
Marguerite R. Kinney, DNSc,	University of Alabama at Birmingham	HOP
Michele D. Kipke, PhD	University of Southern California	AARR
Margaret L. Kirby, PhD	Duke University	CVS
Alex Kirillov	Nex Technologies	BDCN
Kenneth L. Kirk, PhD	National Institutes of Health	MDCN
Sean J. Kirkpatrick, PhD	Oregon Health and Science University	CDF
Alfredo Kirkwood, PhD	Johns Hopkins University	MDCN
John M. Kirkwood, MD	University of Pittsburgh Cancer Institute	ONC
Dimitri Kirpotin, PhD	California Pacific Medical Center Research Institute	BCS
Donald R. Kirsch, PhD	Cambria Biosciences	IDM
Jack F. Kirsch, PhD	University of California, Berkeley	BPC
Robert F. Kirsch, PhD	Case Western Reserve University	MSD
Wolff M. Kirsch, MD	Loma Linda University School of Medicine	MSD
Denise E. Kirschner, PhD	University of Michigan at Ann Arbor	IMM
John P. Kirwan, PhD	Case Western Reserve University	MSD
Bellamkonda K. Kishore, MBBS, MD	University of Utah	CVS, MSD
Walter Kisiel, PhD	University of New Mexico School of Medicine	CVS
Patricia J. Kissinger, PhD	Louisiana State University Health Sciences Center, New Orleans	AARR
Hitoshi Kita, PhD	University of Tennessee Health Science Center	BDCN, IFCN
Judith P. Kitchell, PhD	Biotek, Inc	AARR
Harriet J. Kitzman, PhD	University of Rochester	HOP
Roberta L. Klatzky, PhD	Carnegie Mellon University	BDCN
Robert J. Klebe, PhD	DNAE Ventures, L.P.	BPC, MSD
Daniel N. Klein, PhD	Oregon Research Institute	BBBP
William H. Klein, PhD	University of Texas M.D. Anderson Cancer Center	CDF
William L. Klein, PhD	Northwestern University	MDCN
Michael Kleinberger, PhD	Johns Hopkins University	MSD
Eugenie S. Kleinerman, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
David Kleinfeld, PhD	University of California, San Diego	IFCN
Kenneth P. Kleinman, ScD	Harvard University Medical School	HOP
Naomi Kleitman, PhD	National Institute of Neurological Disorders and Stroke	BDCN
Mary L. Klem, PhD	University of Pittsburgh	RPHB
Robert C. Klesges, PhD	University of Memphis	RPHB
Rachel E. Klevit, PhD	University of Washington	BPC
Thomas R. Kleyman, MD	University of Pittsburgh	MSD
Alexander L. Klibanov, PhD	University of Virginia, Charlottesville	BCS
David S. Kliger, PhD	University of California, Santa Cruz	BPC
Walter T. Klimecki, DVM, PhD	Arizona Respiratory Center	BPC
Ami Klin, PhD	Yale University	BBBP
Kimberly Kline, PhD	University of Texas at Austin	ONC
Laura G. Klinger, PhD	University of Alabama at Tuscaloosa	BBBP
Michel Klot, MD	University of Washington	BDCN
Karl E. Klose, PhD	University of Texas Health Science Center at San Antonio	IDM
Stephen A. Klotz, MD	University of Arizona	IDM
Kelly L. Klump, PhD	Michigan State University	BBBP
Kathleen A. Knafl, PhD	Yale University	HOP
Daniel R. Knapp, PhD	Medical University of South Carolina	BPC
Margaret J. Knapp, MD	Michigan State University	IDM
Pamela E. Knapp, PhD	University of Kentucky	MDCN
Barbel Knauper	McGill University	RPHB

Karin Knesaurek, PhD	Mount Sinai Medical Center	SRB
David C. Knill, PhD	University of Rochester	IFCN
David M. Knipe, PhD	Harvard University Medical School	IDM
Stephen B. Knisley, PhD	University of North Carolina, Chapel Hill	CVS, HEME
James J. Knittel, PhD	University of Cincinnati	BPC
Barbara J. Knowlton, PhD	University of California, Los Angeles	IFCN
Barry E. Knox, PhD	State University of New York Upstate Medical University	CDF
Kerry L. Knox, PhD	University of Rochester	RPHB
Karen A. Knudsen, PhD	Lankenau Institute For Medical Research	CDF
Cheryl B. Knudson, PhD	Rush-Presbyterian-St. Luke's Medical Center	MSD
Kristine Knutson, PhD	University of Utah	BPC, CVS
Frank K. Ko, PhD	Fibrous Materials Group	MSD
Wen H. Ko, PhD	Case Western Reserve University	AARR
R. R. Kobak, PhD	University of Delaware	RPHB
Gerd Kobal, MD, PhD	WSA Phillip Morris, USA	IFCN
Brian K. Kobilka, MD	Stanford University Medical Center	CVS
David Koceja, PhD	Indiana University	MSD
Peter J. Koch, PhD	Baylor College of Medicine	MSD
Irene E. Kochevar, PhD	Massachusetts General Hospital	ONC
Jeffery D. Kocsis, PhD	Yale University	MDCN
Prasada R. Kodavanti, PhD	United States Environmental Protection Agency	IFCN
Eric D. Kodish, MD	Case Western Reserve University	HOP
Theresa M. Koehler, PhD	University of Texas Health Science Center, Houston	IMM
James I. Koenig, PhD	University of Maryland School of Medicine	IFCN
Roger E. Koeppe, PhD	University of Arkansas	MDCN
Paulo Kofuji, PhD	University of Minnesota	MDCN
John T. Koh, PhD	University of Delaware	BPC
Isaac S. Kohane, MD, PhD	Children's Hospital	BPC
Heinz Kohler, MD, PhD	Markey Cancer Center	AARR
Sean S. Kohles, PhD	Kohles Bioengineering	MSD
Joachim B. Kohn, PhD	Rutgers University	PPS
Wendy M. Kohrt, PhD	University of Colorado Health Sciences Center	MSD
John F. Kokai-Kun, PhD	Biosynexus, Inc	AARR
Ryszard Kole, PhD	University of North Carolina, Chapel Hill	GNS
Richard N. Kolesnick, MD	Sloan-Kettering Institute For Cancer Research	ONC
Vassilis E. Koliatsos, MD	Johns Hopkins University	BDCN
Beverly H. Koller, PhD	University of North Carolina, Chapel Hill	IMM
Alex L. Kolodkin, PhD	Johns Hopkins University	MDCN
Roberto G. Kolter, PhD	Harvard University	IFCN
Kelli F. Koltyn, PhD	University of Wisconsin, Madison	MSD
Richard A. Komoroski, PhD	University of Arkansas	BDCN
Udaya B. Kompella, PhD	University of Nebraska Medical Center	BCCS, BDCN
Gregory W. Konat, PhD	West Virginia University	BDCN
Tony A.-N. Kong, MD	Rutgers University College of Pharmacy	PPS, ONC
Dwight H. Kono, MD	Scripps Research Institute	IMM, MSD
Joseph P. Konopelski, PhD	University of California	BPC
Michael P. Koonce, PhD	Wadsworth Center	CDF
James S. Koopman, MD	University of Michigan at Ann Arbor	AARR
Robert D. Koos, PhD	University of Maryland School of Medicine	ONC
Willem J. Kop, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	BBBP
Nancy Kopell, PhD	Boston University, Charles River Campus	IFCN
Raoul Kopelman, PhD	University of Michigan	IDM
Mladen Korbek, PhD	British Columbia Cancer Research Centre	ONC
Murray Korc, MD, PhD	Dartmouth College	ONC
Sanders Korenman, PhD	City University of New York/New York City Community College	HOP
Alan P. Koretsky, PhD	National Institute of Neurological Disorders and Stroke	MDCN
Jane F. Koretz, PhD	Rensselaer Polytechnic Institute	BDCN, MDCN
Gary A. Koretzky, MD, PhD	Keystone Symposia	IMM
Stephen J. Korn, PhD	University of Connecticut, Storrs	MDCN
Richard S. Kornbluth, MD, PhD	University of California, San Diego	AARR

Sally A. Kornbluth, PhD	Duke University	CDF
Robert Korngold, PhD	Thomas Jefferson University	ONC
Ronald J. Korthuis, PhD	Louisiana State University	PPS
Janusz W. Koscielniak, PhD	National Institutes of Health	BPC
Donna Koslowsky, PhD	Michigan State University	IDM
Daniel J. Kosman, PhD	State University of New York at Buffalo	BPC
Barry E. Kosofsky, MD, PhD	Massachusetts General Hospital	MDCN
Mary P. Koss, PhD	University of Arizona	RPHB
Paul Kostyniak, PhD	State University of New York at Buffalo	PPS
Malak Kotb, PhD	University of Tennessee, Knoxville	IMM
Robert M. Kotin, PhD	National Heart, Lung and Blood Institute	BCS
Girish J. Kotwal, PhD	University of Cape Town	IDM
Vladimir A. Koulchin, PhD	Chemogen Corporation	SRB
Elena M. Kouri, PhD	McLean Hospital (Belmont, MA)	BBBP
Dora M. Kovacs, PhD	Massachusetts General Hospital	BDCN
Sandor J. Kovacs, MD, PhD	Washington University	CVS
Susan E. Kovats, PhD	City of Hope National Medical Center	BPC
Imre Kovesdi, PhD	Genvec, Inc	BCS
Yoke W. Kow, PhD	Emory University School of Medicine	ONC
Andrew P. Kowalczyk, PhD	Emory University School of Medicine	MSD
Neil W. Kowall, MD	Edith N. Rogers Memorial Veterans Affairs Hospital	BDCN
Thomas R. Koziel, MD, PhD	University of Nevada	AARR
Margaret J. Koziel, MD, PhD	Beth Israel Deaconess Medical Center	PPS
Alan P. Kozikowski, PhD	University of Illinois at Chicago	BDCN
Marisa C. Kozlowski, PhD	University of Pennsylvania	BPC
Elizabeth Kozora, PhD	National Jewish Medical and Research Center	BDCN
Ellen B. Kraig, PhD	University of Texas Health Science Center	IMM
John W. Krakauer, MD	Columbia University Health Science Center	MSD
Menachem I. Krakowski, MD, PhD	Nathan S. Kline Institute For Psychiatric Research	BBBP
Arthur F. Kramer, PhD	University of Illinois	BBBP
Christopher M. Kramer, MD	University of Virginia, Charlottesville	CVS
Igor Kramnik, MD, PhD	Harvard University School of Public Health	IDM
David E. Krantz, MD, PhD	University of California, Los Angeles	MDCN
David S. Krantz, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	BBBP
Janice E. Kranz, PhD	Proteome, Inc	IDM
Jan P. Kraus, PhD	University of Colorado	BCS
Diane S. Krause, MD, PhD	Yale University School of Medicine	CVS, MSD
Philip R. Krause, MD	Food and Drug Administration	BPC
William R. Krause, PhD	Bioengineering Consultants, Ltd	MSD
Robert M. Krauss, PhD	Columbia University	BBBP
Robert S. Krauss, PhD	Mount Sinai School of Medicine	ONC
Kenneth S. Krauter, PhD	University of Colorado at Boulder	IFCN, MSD
Christopher P. Krebs, PhD	Research Triangle Institute	RPHB
Karl J. Kreder, MD	University of Iowa	MSD
Jordan A. Kreidberg, PhD	Children's Hospital, Boston	MSD
Gary S. Krenz, PhD	Marquette University	SRB
Larry J. Kricka, DPH	University of Pennsylvania School of Medicine	ONC
Robert Krikorian, PhD	University of Cincinnati	RPHB
Katharine Kripke, PhD	Stanford University Medical Center	IDM
Jeffrey P. Krise, PhD	University of North Carolina, Chapel Hill	ONC
Jerry A. Krishnan, MD, PhD	Johns Hopkins University	RPHB
Rajabather Krishnaraj, DVM, PhD	University of Illinois at Chicago	BCS
Sriram Krishnaswamy, PhD	Emory University	HEME
Jean L. Kristeller, PhD	Indiana State University	RPHB
Nikolai M. Krivitski, DSc, PhD	Transonic Systems, Inc	MSD
Deanna L. Kroetz, PhD	University of California, San Francisco	CVS
Wesley Kroeze, PhD	Case Western Reserve University	MDCN
Paul A. Krogstad, MD	University of California, Los Angeles	AARR
Andrzej S. Krolewski, MD, PhD	Joslin Diabetes Center	MSD
David J. Kroll, PhD	Research Triangle Institute	ONC

Steve Kron, PhD	University of Chicago	CDF, IDM
Mitchell E. Kronenberg, PhD	La Jolla Institute For Allergy and Immunology	IMM
Ziad Kronfol, MD	University of Michigan	BDCN
Marie A. Krousel-Wood, MD	Ochsner Clinic Foundation	HOP
Thomas A. Krouskop, PhD	Baylor College of Medicine	MSD
James M. Krueger, PhD	Washington State University	IFCN
Robert M. Krug, PhD	University of Texas at Austin	IDM
Robert A. Kruger, PhD	Optosonics, Inc	SRB
Warren D. Kruger, PhD	Fox Chase Cancer Center	BCS
Irvin B. Krukenkamp, MD	State University of New York at Stony Brook	SRB
Peter Krulevitch, PhD	Johnson and Johnson	BCS
Terry A. Krulwich, PhD	Mount Sinai School of Medicine	BPC
Harlan M. Krumholz, MD	Yale University School of Medicine	HOP
Richard Kryscio, PhD	University of Kentucky	BDCN
Joseph A. Krzycki, PhD	Ohio State University	IDM
Bruce R. Ksander, PhD	Schepens Eye Research Institute	BDCN
Leszek K. Kubin, PhD	University of Pennsylvania	PPS
Vijay K. Kuchroo, DVM, PhD	Brigham and Women's Hospital	IMM
Meta Kuehn, PhD	Duke University	IDM
Dean O. Kuethe, PhD	New Mexico Resonance	SRB
Donald W. Kufe, MD	Dana-Farber Cancer Institute	IMM
Donald M. Kuhn, PhD	Wayne State University	PPS
Leslie A. Kuhn, PhD	Michigan State University	BPC
Liisa T. Kuhn, PhD	University of Connecticut School of Medicine and Dentistry	MSD
Louise Kuhn, PhD	Columbia University Health Science Center	AARR
Peter Kuhn, PhD	Scripps Research Institute	BPC
Walter A. Kukull, PhD	University of Washington	HOP
Maria Kukuruzinska, PhD	Boston University	MSD
Molly F. Kulesz-Martin, PhD	Oregon Health and Science University	ONC
Casimir A. Kulikowski, PhD	Rutgers University	MDCN
Athan Kuliopulos, MD, PhD	New England Medical Center Hospitals	HEME
Ajit Kumar, PhD	George Washington University	PPS, AARR
Anand Kumar, MD	University of California, Los Angeles	BDCN
Mahendra Kumar, PhD	University of Miami	AARR
Nirbhay Kumar, PhD	Johns Hopkins University	AARR
Rakesh F. Kumar, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Hank F. Kung, PhD	University of Pennsylvania	BDCN
Hsing Jien Kung, PhD	University of California, Davis	MSD
Robert T. Kung, PhD	Abiomed, Inc	SRB
Catherine B. Kunst, PhD	Eleanor Roosevelt Institute For Cancer Research	BDCN
Karyn Kunzelman, PhD	Central Maine Heart and Vascular Institute	MDCN
Arthur D. Kuo, PhD	University of Michigan	IFCN
Cho-Chou Kuo, MD, PhD	University of Washington	IDM
Grace M. Kuo, EdD	Baylor College of Medicine	MSD
Lih Kuo, PhD	Texas A&M University Health Science Center	HEME
Scot C. Kuo, PhD	Johns Hopkins University	CDF
Periannan Kuppusamy, PhD	Ohio State University	MSD
Daniel R. Kuritzkes, MD	Brigham and Women's Hospital	AARR
Roger M. Kurlan, MD	University of Rochester	BDCN, HOP
James T. Kurnick, MD	Massachusetts General Hospital	IMM
Evelyn A. Kurt-Jones, PhD	University of Massachusetts Medical School, Worcester	IMM
Daniel B. Kurtz, PhD	State University of New York Health Science Center	IFCN
Linda C. Kurz, PhD	Washington University	BPC
Lawrence H. Kushi, DSc, PhD	Kaiser Foundation Research Institute	HOP
James P. Kushner, MD	University of Utah School of Medicine	GNS
Alexander W. Kusnecov, PhD	Rutgers University	IFCN
Elizabeth M. Kutter, PhD	Evergreen State College	IDM
John Y. Kuwada, PhD	University of Michigan	MDCN
Patricia B. Kwachka, PhD	University of Alaska	BBBP
Kurt E. Kwast, PhD	University of Illinois	GNS

Madan M. Kwatra, PhD	Duke University Medical Center	BDCN
David J. Kwiatkowski, MD, PhD	Brigham and Women's Hospital	ONC
Robert W. Kwiatkowski, PhD	Third Wave Technologies, Inc	IDM
Pui-Yan Kwok, MD, PhD	University of California, San Francisco	GNS
William W. Kwok, PhD	Benaroya Research Institute at Virginia Mason	AARR
Eugene D. Kwon, MD, PhD	Mayo Clinic, Rochester	ONC
Glen S. Kwon, PhD	University of Wisconsin, Madison	BCS
H. Moo Kwon, PhD	University of Maryland Baltimore Professional School	MSD
Natasha Kyprianou, PhD	University of Kentucky	ENR, MSD, ONC
Andrew R. La Barbera, PhD	University of Cincinnati	ENR
Robert H. La Motte, PhD	Yale University	IFCN
Suman Laal, PhD	New York University School of Medicine	CDF
Martine Laberge, PhD	Clemson University	MSD
Vinod D. Labhasetwar, PhD	University of Nebraska Medical Center	CVS, HEME
William R. Lacey, PhD	University of Alabama at Birmingham	BPC
Lawrence B. Lachman, PhD	University of Texas M.D. Anderson Cancer Center	AARR
Daniel T. Lackland, DPH, DRPH	Medical University of South Carolina	HOP
Andrew A. Lackner, DVM, MD	Tulane University	AARR
John R. Lacourse, PhD	University of New Hampshire	IDM, SRB
Elizabeth H. Lacy, PhD	Sloan-Kettering Institute For Cancer Research	CDF, GNS
Marc Ladanyi, MD	Sloan-Kettering Institute For Cancer Research	GNS
Gary W. Ladd, EdD, PhD	Arizona State University	RPHB
Ellen E. Ladenheim, PhD	Johns Hopkins University	IFCN
Jack H. Ladenson, PhD	Washington University	BPC
Keith R. Laderoute, PhD	SRI International	ONC
Stephan K. Ladsch, MD	Children's Research Institute	BPC, ONC
Mary J. Ladu, PhD	Evanston Northwestern Healthcare Research Institute	MDCN
Eileen M. Lafer, PhD	University of Texas Health Science Center at San Antonio	CDF, IMM, MDCN
Frank M. Laferla, PhD	University of California	BDCN
Lori M. Laffel, MD	Joslin Diabetes Center	NMS, RPHB
Debomoy K. Lahiri, PhD	Indiana University School of Medicine	BDCN, MDCN
Joydeep Lahiri, PhD	Corning, Inc	BCS
Eric H. Lai, PhD	Glaxo Wellcome, Inc	GNS
Josephine Lai, PhD	University of Arizona	IFCN
Leanne Lai, PhD	Nova Southeastern University	HOP
Song Lai, PhD	University of Connecticut Health Center	BDCN
David H. Laidlaw, PhD	California Institute of Technology	MDCN
Laimonis A. Laimins, PhD	Northwestern University	GNS
Andrew F. Laine, DSc, MD	Columbia University	MDCN
Joseph R. Lakowicz, PhD	University of Maryland	AARR, GNS, SRB
Raj Lakshman, PhD	George Washington University	PPS
Ratneshwar Lal, PhD	University of California, Santa Barbara	BDCN
Edward T. Lally, DMD, PhD	University of Pennsylvania	MSD
Anil K. Lalwani, MD	New York University	IFCN
Tim T. Lam, PhD	Doheny Eye Institute	BDCN
Joseph C. Lamanna, PhD	Case Western Reserve University	BDCN
Dolores J. Lamb, PhD	Baylor College of Medicine	ENR, MSD
Richard J. Lamb, PhD	University of Texas Health Science Center	BBBP
Paul F. Lambert, PhD	McArdle Laboratory For Cancer Research	IDM
David J. Lambeth, MD, PhD	Emory University School of Medicine	IMM
Lamk M. Lamki, MD	University of Texas Health Science Center, Houston	SRB
Kathryn G. Lamping, PhD	University of Iowa Hospitals and Clinics	PPS
Rebecca Landa, PhD	Kennedy Krieger Research Institute, Inc	BBBP
Barbara Landau, PhD	University of Delaware	BBBP
Nathaniel R. Landau, PhD	Salk Institute For Biological Studies	AARR
Alan L. Landay, PhD	Rush-Presbyterian-St. Luke's Medical Center	AARR
Thomas D. Landefeld, PhD	California State University, Dominguez Hills	IMM
Philip W. Landfield, PhD	University of Kentucky	IFCN
Carol A. Landis, PhD	University of Washington, Seattle	MSD
William J. Landis, PhD	University of Cincinnati	MSD

Gary E. Landreth, PhD	Case Western Reserve University	BDCN
Michael S. Landy, PhD	New York University	IFCN
Pascale H. Lane, MD	University of Nebraska Medical Center	MSD
Charles H. Lang, PhD	Pennsylvania State University	PPS
James C. Lang, PhD	Ohio State University	ONC
Gudrun Lange, PhD	New Jersey Medical School	MSD
Mark Langer, MD	Advanced Process Combinatorics	ONC
Solomon Langermann, PhD	Medimmune, Inc	AARR
Helene M. Langevin, MD	University of Vermont	CVS
George M. Langford, PhD	Dartmouth College	MDCN
Judith H. Langlois, PhD	University of Texas at Austin	RPHB
Lucia R. Languino, PhD	University of Massachusetts Medical School, Worcester	ONC
Lewis Lanier, PhD	University of California, San Francisco	IMM
Stephen M. Lanier, PhD	Louisiana State University Health Sciences Center	CVS
William L. Lanier, MD	Mayo Clinic	SRB
Edward B. Lankford, MD, PhD	Thomas Jefferson University	PPS
Frederick Lanni, PhD	Carnegie Mellon University	CDF
Gregory M. Lanza, MD, PhD	Barnes-Jewish Hospital	ONC
Lixing Lao, PhD	University of Maryland	CVS
Michael Laposata, MD, PhD	Massachusetts General Hospital	PPS
Carolyn A. Larabell, PhD	University of California, San Francisco	BPC, CDF
George E. Laramore, MD, PhD	University of Washington	ONC
Andrew C. Lerner, MD, PhD	Cleveland Clinic Foundation	BPC, IMM
Randy J. Larsen, PhD	Washington University	RPHB
Janet L. Larson, PhD	University of Illinois at Chicago	HOP
Steven M. Larson, MD, PhD	Memorial Sloan-Kettering Cancer Center.	CDF
Thomas M. Lasater, PhD	Brown University	HOP, RPHB
Lawrence H. Lash, PhD	Wayne State University	PPS
Larry C. Lasky, MD	Ohio State University	HEME
Linda Lasure, PhD	Pacific Northwest National Laboratory	IDM
John J. Laterra, MD, PhD	Kennedy Krieger Research Institute, Inc	BDCN
Gary J. Latham, PhD	Ambion, Inc	ONC
Richard Lathrop, PhD	University of California, Irvine	BPC
Edmund C. Lattime, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	ONC
Johnson Lau, MD		PPS
Mark L. Laudenslager, MD, PhD	University of Colorado	BBBP
Diane S. Lauderdale, PhD	University of Chicago	HOP
Thomas M. Laue, PhD	University of New Hampshire	BCS
Georg M. Lauer, MD, PhD	Massachusetts General Hospital	AARR
Douglas A. Lauffenburger, PhD	Massachusetts Institute of Technology	ONC
Gordon W. Laurie, PhD	University of Virginia	BDCN
Steven A. Lavender, PhD	Rush-Presbyterian-St. Luke's Medical Center	HOP
Arnon Lavie, PhD	University of Illinois at Chicago	AARR, IDM
Barry K. Lavine, PhD	Clarkson University	IDM
Christopher W. Lawrence, PhD	University of Rochester	ONC
H. Jeffrey Lawrence, MD	University of California, San Francisco	CDF
John C. Lawrence, PhD	University of Virginia	BCS
Michael Lawrence, PhD	University of Virginia, Charlottesville	CVS
Theodore S. Lawrence, MD, PhD	University of Michigan at Ann Arbor	ONC
Edward E. Lawson, MD	Johns Hopkins University	ENR
Terry N. Layton, PhD	Heyer Schulte Neurocare	SRB
Mitchell A. Lazar, MD, PhD	University of Pennsylvania School of Medicine	NMS
Lawrence H. Lazarus, PhD	National Institute of Environmental Health Sciences	CDF
David W. Lazinski, PhD	Tufts University, Boston	IDM
John S. Lazo, PhD	University of Pittsburgh	BPC, CDF
Michelle M. Le Beau, PhD	University of Chicago	ONC
Susan P. Le Doux, PhD	University of South Alabama	ONC
I. Caroline Le Poole, PhD	Loyola University Medical Center	IDM
Dale H. Lea	Foundation For Blood Research	GNS
Richard E. Leach, MD	Wayne State University	ENR

Robin J. Leach, PhD	University of Texas	GNS
Philip J. Leaf, PhD	Johns Hopkins University	HOP
Richard M. Leahy, PhD	University of Southern California	SRB
Suzanne M. Leal, PhD	Baylor College of Medicine	HOP
James F. Leary, PhD	University of Texas Medical Branch at Galveston	CVS, HEME
Julie A. Leary, PhD	University of California, Berkeley	BPC
Dennis D. Leavitt, PhD	University of Utah	ONC, SRB
Frank J. Lebeda, PhD	United States Army Medical Research Institute of Infectious Diseases	IDM
Andrea C. Leblanc, PhD	McGill University	MDCN
Carlito B. Lebrilla, PhD	University of California, Davis	BPC
James D. Lechleiter, PhD	University of Texas Health Science Center	MDCN
Stewart H. Lecker, MD, PhD	Beth Israel Deaconess Medical Center	MSD
Felicia B. Leclere, PhD	University of Notre Dame	HOP
W. Jonathan Lederer, MD, PhD	University of Maryland Biotechnology Institute	CVS
Mark S. LeDoux, MD, PhD	University of Tennessee Health Science Center	BDCN
Abe Lee, PhD	University of California, Irvine	BPC
Adrian V. Lee, PhD	Baylor College of Medicine	ONC
Brendan Lee, MD, PhD	Baylor College of Medicine	GNS
Chao-Hung Lee, PhD	Indiana University	AARR
Cheng S. Lee, PhD	University of Maryland, College Park	BPC
Chia Y. Lee, PhD	University of Kansas Medical Center	IDM
Chung Lee, PhD	Northwestern University	ONC
Gloria Lee, PhD	University of Iowa	MDCN
Jiyon Lee, MD	Columbia University	SRB
John D. Lee, PhD	University of Iowa	BBBP
Jonathan P. Lee, PhD	Boston University, Charles River Campus	BPC
Kelvin H. Lee, PhD	Cornell University	BCS
Kelvin P. Lee, MD	University of Miami School of Medicine	IMM
Ken Lee, MD	Oregon Health and Science University	SRB
Kerry L. Lee, PhD	Duke University Medical Center	HOP
Kevin S. Lee, PhD	University of Virginia	BDCN
Linda S. Lee, PhD	Duke University Medical Center	HOP
Luke P. Lee, PhD	University of California, Berkeley	SRB
Lu-Yuan Lee, PhD	University of Kentucky Medical Center	MDCN
Martha B. Lee, PhD	University of California	AARR
Michael K. Lee, PhD	Johns Hopkins University School of Medicine	MDCN
Milton L. Lee, PhD	Brigham Young University	BPC
Nancy A. Lee, PhD	Mayo Clinic, Rochester	IMM
Raphael C. Lee, MD, ScD	University of Chicago	ONC, SRB
Richard E. Lee, PhD	University of Tennessee	AARR
Richard T. Lee, MD	Brigham and Women's Hospital	CVS, MSD
Robert J. Lee, PhD	Ohio State University	SRB
Sam W. Lee, PhD	Beth Israel Deaconess Medical Center	ONC
Shoou-Yih D. Lee, PhD	University of North Carolina, Chapel Hill	HOP
Sunhee C. Lee, MD, PhD	Yeshiva University	AARR
Terry D. Lee, PhD	City of Hope National Medical Center	BPC
Valerie E. Lee, EdD	University of Michigan at Ann Arbor	RPHB
Ving J. Lee, PhD	Anacor Pharmaceuticals, Inc	BPC, IDM
Virginia M. Lee, PhD	University of Pennsylvania	MDCN
Wei-Hua Lee, MD, PhD	Indiana University	BDCN
William M. Lee, MD, PhD	University of Pennsylvania	ONC
Young M. Lee, PhD	University of California	BCS
J. Steven Leeder, PhD	Children's Mercy Hospital (Kansas City, MO)	CVS
Dennis B. Leeper, MD, PhD	Thomas Jefferson University	ONC
Damon C. Lees, PhD	Moberg Research, Inc	BDCN
Jacqueline A. Lees, PhD	Massachusetts Institute of Technology	BCS
Stephen S. Leff, PhD	Children's Hospital of Philadelphia	BBBP
Robert D. Leffert, MD	Harvard University Medical School	MSD
Leo J. Lefrancois, PhD	Federation of American Societies For Experimental Biology	IDM
Randy J. Legerski, PhD	University of Texas M.D. Anderson Cancer Center	ONC

Giuseppe Legname, PhD	University of California, San Francisco	IDM
Stuart Legrice, PhD	National Cancer Institute	AARR
John M. Lehman, PhD	American Association For Cancer Research	AARR, CVS, HEME
Sherwin S. Lehrer, PhD	Boston Biomedical Research Institute	MSD
Elizabeth A. Leibold, PhD	University of Utah	ENR
Gordon J. Leitch, PhD	Morehouse School of Medicine	AARR
Christy H. Lemak	University of Florida	HOP
Cynthia A. Lemere, PhD	Brigham and Women's Hospital	BDCN
Bertrand Lemieux, PhD	Iquum, Inc	IDM
Mark A. Lemmon, PhD	University of Pennsylvania School of Medicine	CDF
Jack E. Lemons, PhD	University of Alabama at Birmingham	MSD
Christopher Lengauer, PhD	Johns Hopkins University	BCS
Judith A. Lengyel, PhD	University of California, Los Angeles	CDF
Robert E. Lenkinski, PhD	Beth Israel Deaconess Medical Center	SRB
Jack R. Lenz, PhD	Albert Einstein College of Medicine, Yeshiva University	IDM
Edward B. Leof, PhD	Mayo Clinic, Rochester	CDF, ONC
Andrew C. Leon, PhD	Weill Medical College of Cornell University	BBBBP
Christopher S. Leonard, PhD	New York Medical College	IFCN
Debra G. Leonard, MD, PhD	University of Pennsylvania	ONC
Kenneth E. Leonard, PhD	State University of New York at Buffalo	RPHB
Leslie A. Leonard, PhD	Agilent Technologies	BPC
Mary B. Leonard, MD	Children's Hospital of Philadelphia	HOP
Lucille Leong, MD	City of Hope National Medical Center	ONC
Neocles B. Leontis, PhD	Bowling Green State University	BPC
James M. Lepkowski, PhD	University of Michigan	RPHB
James R. Lepock, PhD	University of Waterloo	ONC
Stephen J. Lepore, PhD	Teachers College, Columbia University	RPHB
Stephen H. Leppla, PhD	National Institute of Dental and Craniofacial Research	IDM
Dorothea C. Lerman, PhD	Kennedy Krieger Research Institute, Inc	RPHB
Ake Lernmark, MD, PhD	University of Washington	NMS
Gene D. Lesage, MD	University of Texas Health Science Center, Houston	PPS
Greg Leshner, PhD	Enkidu Research, Inc	MSD
Heather Young Leslie, PhD	University of Hawaii at Manoa	RPHB
James L. Lessard, PhD	Children's Hospital Medical Center, Cincinnati	MSD
Robin A. Lester, PhD	University of Alabama at Birmingham	MDCN
Carl G. Leukefeld	University of Kentucky	HOP
Barbara P. Leukert, MD	University of Kansas Medical Center	MSD
Andre Levchenko, PhD	Johns Hopkins University	BPC, GNS
Suzanne G. Leveille, PhD	Hebrew Rehabilitation Center For Aged	MSD
Richard M. Levenson, MD, PhD	Cambridge Research and Instrumentation	SRB
Barry E. Levin, MD	United States Department of Veterans Affairs Medical Center, Orange	IFCN
Harvey S. Levin, MD, PhD	Baylor College of Medicine	RPHB
Leonard A. Levin, MD, PhD	University of Wisconsin, Madison	CDF
Nancy J. Levin, PhD	Genentech, Inc	CDF
Benjamin D. Levine, MD	University of Texas Southwestern Medical Center at Dallas	CVS
Fred Levine, MD, PhD	University of California, San Diego	NMS
Michael S. Levine, MD, PhD	University of California	IFCN
Michael Levine, PhD	University of California	CDF
Robert A. Levine, MD	Massachusetts General Hospital	CVS
Arnold I. Levinson, MD	University of Pennsylvania	IMM
Douglas F. Levinson, MD	University of Pennsylvania	HOP
Stephen F. Levinson, MD, PhD	University of Rochester	SRB
Steven W. Levison, PhD	Pennsylvania State University Hershey Medical Center	MDCN
Lynne L. Levitsky, MD	Massachusetts General Hospital	NMS
Harry Levitt, PhD	Advanced Hearing Concepts	IFCN
Stuart M. Levitz, MD	Boston Medical Center	IDM
Abraham Levy, PhD	National Center For Research Resources	BPC
Allan H. Levy, MD	University of Illinois at Urbana-Champaign	SRB
David E. Levy, PhD	New York University School of Medicine	IMM
Judith A. Levy, PhD	University of Illinois at Chicago	CDF

Laura S. Levy, MD, PhD	Tulane University School of Medicine	IDM, ONC
Robert B. Levy, PhD	University of Miami School of Medicine	ONC
Robert J. Levy, MD	Children's Hospital of Philadelphia	MSD
Rona L. Levy, PhD	University of Washington	RPHB
Susie Q. Lew, MD	George Washington University	SRB
Alfred S. Lewin, PhD	University of Florida	GNS
Peter A. Lewin, PhD	Drexel University	SRB
Jeffrey Lewine, PhD	University of Kansas, Lawrence	SRB
David L. Lewis, PhD	Mirus Corporation	MDCN
Deborah L. Lewis, PhD	Medical College of Georgia	BDCN
Jack L. Lewis, PhD	University of Minnesota	MSD
Mark H. Lewis, MD, PhD	University of Florida	BBBP
Michael Robert Lewis	University of Missouri, Columbia	ONC
Randolph V. Lewis, PhD	University of Wyoming	MSD
Ronald W. Lewis, MD	Medical College of Georgia	MSD
Simon A. Lewis, PhD	University of Texas Medical Branch	MSD
Klaus F. Ley, MD, PhD	University of Virginia	NMS
John K. Leypoldt, PhD	University of Utah	IDM
Cai Li, PhD	University of Texas Southwestern Medical Center at Dallas	NMS
Christiane Li, PhD	Boston University, Charles River Campus	MDCN
Chuan-Yuan Li, PhD	Duke University Medical Center	ONC
Fuzhong Li, PhD	Oregon Research Institute	MSD
Hongzhe Li, PhD	University of California, Davis	HOP
Jian-Dong Li, MD, PhD	House Ear Institute	IFCN
John K.-J. Li, PhD	Rutgers University	CVS, RPHB, SRB
Lei Li, PhD	University of Notre Dame	CDF
Lian Li, PhD	Emory University	MDCN
Liwu Li, PhD	Wake Forest University Health Sciences	IMM
Shi-Jiang W. Li, PhD	Medical College of Wisconsin	BBBP
Shulin Li, PhD	Louisiana State University A&M College, Baton Rouge	BCS, CVS, HEME, SRB
Xiao-Jiang Li, PhD	Emory University	BDCN
Yi-Ping Li, PhD	Forsyth Institute	MSD
Zihai Li, MD, PhD	University of Connecticut Health Center	IMM
Jane B. Lian, PhD	University of Massachusetts Medical School, Worcester	MSD
Bruce T. Liang, MD	University of Connecticut School of Medicine and Dentistry	HEME
Jerome Z. Liang, PhD	State University of New York	SRB
Matthew H. Liang, MD	Brigham and Women's Hospital	HOP
T. Jake Liang, MD	Massachusetts General Hospital	IDM
Yiqing Liang, MD, PhD	Clever Systems, Inc	IFCN
Helen Liapis, MD	Washington University	MSD
Stephen J. Libby, PhD	University of Washington	GNS, IDM
Howard L. Liber, PhD	Colorado State University	ONC
Mark Liberman, PhD	University of Pennsylvania	BBBP
Hilary J. Liberty, PhD	Social Sciences Innovations Corporation	HOP
Jonathan D. Licht, MD	Mount Sinai School of Medicine	ONC
Julio Licinio, MD	University of California, Los Angeles	BDCN, NMS
Robert C. Liddington, PhD	Burnham Institute	IDM
Steven D. Lidofsky, MD, PhD	University of Vermont College of Medicine	PPS
Howard B. Lieberman, PhD	Columbia University College of Physicians and Surgeons	ONC
Edward A. Liechty, MD	Indiana University	ENR
Joachim G. Liehr, PhD	Stehlin Foundation For Cancer Research	NMS
Yeong-Hau Howard Lien, MD, PhD	University of Arizona	MSD
John C. Lieske, MD	Mayo Clinic, Rochester	MSD
Alan R. Light, PhD	University of Utah	IFCN
David A. Lightfoot, PhD	Southern Illinois University at Carbondale	GNS
Marguerita Lightfoot, PhD	University of California, Los Angeles	AARR
Joann S. Lighty, PhD	University of Utah	BPC
Anthony Liguori, PhD	Wake Forest University Health Sciences	BBBP
Jack E. Lilien, PhD	University of Iowa	IFCN

David E. Lilienfeld, MD	FMAS Corporation	HOP
Daniel V. Lim, PhD	University of South Florida	IDM
Kelvin O. Lim, MD	University of Minnesota	BDCN
Patrick A. Limbach, PhD	University of Cincinnati	AARR, BPC, GNS
Andrew H. Limper, MD	Mayo Clinic, Rochester	AARR, PPS
Richard A. Limpicki, PhD	SAIC-Frederick	IMM
Chentao Lin, PhD	University of California, Los Angeles	CDF
Danyu Lin, PhD	University of North Carolina, Chapel Hill	HOP
Elizabeth Lin	Centre For Addiction and Mental Health	RPHB
James C. Lin, PhD	University of Illinois	SRB
Weili Lin, PhD	University of North Carolina, Chapel Hill	BDCN
Kersti K. Linask, PhD	University of South Florida	CVS, HEME
Alan Lincoln, PhD	Alliant University	BBBP
Kristin M. Lindahl, PhD	University of Miami, Coral Gables	RPHB
Lasse A. Lindahl, PhD	University of Maryland, Baltimore County	CDF
Manfred Lindau, PhD	Max Planck Institute For Medical Research	GNS, MDCN
Iris Lindberg, PhD	Louisiana State University Health Sciences Center, New Orleans	MDCN
Anne S. Lindblad, PhD	The Emmes Corporation	CDF
Joel M. Linden, PhD	University of Virginia	CVS
Michael R. Linden, PhD	Mount Sinai School of Medicine	IDM
Maria C. Linder, PhD	California State University	ENR
Maurine E. Linder, PhD	Washington University	CVS
Stuart M. Lindsay, PhD	Arizona State University	BPC, CDF
Bruce G. Lindsey, PhD	University of South Florida	IFCN
Janet E. Lindsley, PhD	University of Utah	CDF
Bruce R. Line, MD	University of Maryland Medical System	SRB
Paul D. Ling, PhD	Baylor College of Medicine	AARR
Mark L. Lingen, DDS, PhD	University of Chicago	ONC
Jeanne M. Link, PhD	University of Washington	SRB
Thomas A. Linkhart, PhD	Loma Linda University	MSD
Jonathan M. Links, PhD	Johns Hopkins University	SRB
Robert A. Linsenmeier, PhD	Northwestern University	CDF
Adam D. Linstedt, PhD	Carnegie Mellon University	CDF
Marigold L. Linton, PhD	University of Kansas	IMM
Phyllis-Jean Linton, PhD	Sidney Kimmel Cancer Center	HEME
Dennis C. Liotta, PhD	Emory University	AARR
Herbert H. Lipowsky, PhD	Pennsylvania State University	CVS
John D. Lipscomb, PhD	University of Minnesota, Twin Cities	BPC
Mark W. Lipsey, PhD	Vanderbilt University	RPHB
Howard L. Lipton, MD	Evanston Northwestern Healthcare Research Institute	BDCN
Jack W. Lipton, PhD	Rush University	BDCN
Rebecca B. Lipton, PhD	University of Chicago	HOP
Sarah H. Lisanby, MD, PhD	New York State Psychiatric Institute	IFCN
Philip Lister, PhD	Creighton University School of Medicine	IDM
Julianna Lisziewicz, PhD	Genetic Immunity, LLC	AARR
David G. Litaker, MD, PhD	Metrohealth Medical Center	HOP
Gary W. Litman, PhD	University of South Florida	CDF, IMM
Brian Litt, MD	University of Pennsylvania	BDCN
Lawrence Litt, MD, PhD	University of California, San Francisco	SRB
William C. Little, MD	Wake Forest University Health Sciences	CVS
James T. Littleton, MD, PhD	Massachusetts Institute of Technology	MDCN
Christine M. Litwin, MD, PhD	University of Utah	IDM
Sheldon Litwin, MD	University of Utah	CVS
Olivia R. Liu Sheng, PhD	University of Arizona	HOP, SRB
Alan Liu, PhD	National Capital Area Simulation Center	MDCN, SRB
Alice Y. C. Liu, PhD	Rutgers University	BCS
Brian C. Liu, PhD	Brigham and Women's Hospital	MSD
Chen Liu, MD, PhD	University of Florida College of Medicine	PPS
Dexi Liu, PhD	University of Pittsburgh	BCS, PPS
Fei-Fei Liu, MD	University of Toronto	ONC

Fenyong Liu, PhD	University of California	AARR
Gang-Yu Liu, PhD	University of California, Davis	BPC
Jun Liu, PhD	Harvard University	GNS
Maw-Shung Liu, DDS, PhD	St. Louis University	PPS
Simin Liu, MD, ScD	Brigham and Women's Hospital	HOP
Su-Yi Liu, PhD	World Precision Instruments, Inc	IDM
Yang Liu, PhD	Ohio State University	BPC
Yanxi Liu, PhD	Carnegie Mellon University	SRB
Philip O. Livingston, MD	Sloan-Kettering Institute For Cancer Research	AARR
Alexandra M. Livingstone, PhD	University of Rochester Medical Center	IMM
Patricia J. Liwang, PhD	Texas A&M University	AARR, BPC
Maria M. Llabre, PhD	University of Miami School of Medicine	BBBBP, RPHB
Baird W. Lloyd, PhD	Miami University, Middletown	BBBBP
Joyce Lloyd, PhD	Virginia Commonwealth University	CDF
Richard E. Lloyd, PhD	Baylor College of Medicine	IDM
Eng H. Lo, MD, PhD	Massachusetts General Hospital	BDCN
Joseph Y. Lo, PhD	Duke University	SRB
Shih-Chung B. Lo, PhD	Georgetown University	SRB
Shyh-Ching Lo, MD, PhD	American Registry of Pathology, Inc	IDM
Peter Lobel, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	BDCN
John E. Lochman, PhD	University of Alabama	BBBBP, RPHB
Joseph D. Locker, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	ONC
Stephen J. Lockett, PhD	University of California Lawrence Berkeley National Laboratory	GNS
Warren E. Lockette, MD	United States Naval Medical Center, San Diego	CVS
Oksana Lockridge, PhD	University of Nebraska Medical Center	ENR
Geoffrey R. Lockwood, PhD	Cleveland Clinic Foundation	SRB
Robert A. Lodder, PhD	University of Kentucky	SRB
Jennifer K. Lodge, PhD	St. Louis University	AARR, IDM
Dan Loeb, PhD	University of Wisconsin	IDM
Jay S. Loeffler, MD	Massachusetts General Hospital	MDCN
Ronald E. Loehman, PhD	University of New Mexico, Albuquerque	MSD
Mary R. Loeken, MD, PhD	Joslin Diabetes Center	ENR
Leslie M. Loew, PhD	University of Connecticut Health Center	CDF, MDCN
Murray H. Loew, PhD	George Washington University	SRB
David A. Loewenstein, PhD	University of Miami School of Medicine	AARR
Chris Loffredo, PhD	Georgetown University	HOP
K. William Logan, PhD	University of Missouri	SRB
T. K. Logan, PhD	University of Kentucky	AARR
Timothy M. Logan, PhD	Florida State University	BPC
Philip C. Loh, PhD	University of Hawaii at Manoa	IDM
Anna S. Lok, MBBS, MD	University of Michigan at Ann Arbor	PPS
Eric S. Loker, PhD	University of New Mexico, Albuquerque	IDM
John S. Lollar, MD	Emory University	IDM
Sven Loncaric, PhD	New Jersey Institute of Technology	BPC
Barry London, MD, PhD	University of Pittsburgh Medical Center	CVS
Eric B. London, MD	National Alliance For Autism Research	BBBBP
Constantine Londos, DDS, PhD	National Institute of Diabetes and Digestive and Kidney Diseases	ENR
Carlin S. Long, MD	University of Colorado Health Sciences Center	CVS
Cynthia R. Long, PhD	Palmer Center For Chiropractic Research	MSD
Jeffrey C. Long, PhD	University of Michigan	GNS
William J. Long, MD, PhD	Laboratory For Computer Science	CVS
Ross E. Longley, PhD	Harbor Branch Oceanographic Institution	IDM
Frank M. Longo, MD, PhD	University of North Carolina, Chapel Hill	MDCN
Nicola Longo, MD, PhD	University of Utah	MSD
Robert E. Longo, PhD	New Hope Treatment Centers	RPHB
Joseph A. Loo, PhD	University of California, Los Angeles	BPC
A. T. Look, MD	Dana-Farber Cancer Institute	ONC
Dana P. Loomis, PhD	University of North Carolina, Chapel Hill	HOP
Jack M. Loomis, PhD	University of California, Santa Barbara	BDCN
David J. Looney, MD	University of California, San Diego	AARR

Cynthia C. Lord, PhD	University of Florida	IDM
Edith M. Lord, PhD	University of Rochester Cancer Center	ONC
Sarah E. Lord, PhD	Inflexxion, Inc	AARR
Tyler S. Loring, PhD	Washington and Lee University	IFCN
Jeanne F. Loring, PhD	Arcos Biosciences, Inc	BDCN, MDCN
Stephen H. Loring, MD	Beth Israel Deaconess Medical Center	PPS
Patricia M. Lorusso, DO, MD	Wayne State University	ONC
Joseph J. Loturco, PhD	University of Connecticut, Storrs	MDCN
Sana Loue, JD, PhD	Case Western Reserve University	AARR
John W. Lough, PhD	Medical College of Wisconsin	CVS, HEME
David N. Louis, MD	Massachusetts General Hospital	ONC
Elan D. Louis, MD, PhD	Columbia University Health Science Center	HOP
Katherine A. Loveland, PhD	University of Texas Health Science Center, Houston	BDCN
Philip T. Loverde, PhD	State University of New York at Buffalo	IDM
David H. Lovett, MD	Northern California Institute For Research and Education	CVS
Daniel A. Low, PhD	Washington University	ONC
Malcolm J. Low, MD, PhD	Oregon Health and Science University	ENR
Phillip A. Low, MD	Mayo Clinic, Rochester	BDCN
Mark J. Lowe, PhD	Indiana University-Purdue University, Indianapolis	SRB
William L. Lowe, MD	Northwestern University Medical School	ENR
Clifford A. Lowell, MD, PhD	University of California, San Francisco	IMM
George H. Lowell, MD	ID Biomedical Corporation of Washington	AARR
Pedro R. Lowenstein, MD, PhD	Cedars-Sinai Medical Center	MDCN
Curtis L. Lowery, MD	University of Arkansas For Medical Sciences	BPC, SRB
Susan Lowey, PhD	University of Vermont	CDF
Anthony M. Lowman, PhD	Drexel University	BPC
John L. Lowrance	Princeton Scientific Instruments, Inc	AARR
Jian-Yu X. Lu, PhD	University of Toledo	SRB
Luo Lu, MD, PhD	Harbor-UCLA Research and Education Institute	BDCN
Mei Lu, PhD	Henry Ford Health System	ONC
Min Lu, PhD	Weill Medical College of Cornell University	AARR
Shan Lu, MD, PhD	University of Massachusetts Medical School, Worcester	AARR
Shelly C. Lu, MD	University of Southern California	PPS
Richard A. Luben, PhD	University of California, Riverside	SRB
Bertram H. Lubin, MD, PhD	Children's Hospital and Research Center at Oakland	HOP
David M. Lubman, PhD	University of Michigan at Ann Arbor	ONC
Mark R. Luborsky, PhD	Wayne State University	RPHB
Steven J. Luck, PhD	University of Iowa	BBBP
Irwin Lucki, PhD	University of Pennsylvania	IFCN
Elizabeth A. Ludington,	Statistics Collaborative, Inc	HOP
John B. Ludlow, DDS	University of North Carolina, Chapel Hill	MSD
Logan T. Ludwig, PhD	Loyola University Medical Center	RPHB
Thomas C. Lufkin, PhD	Mount Sinai School of Medicine	CDF, MSD
Ronald J. Lukas, PhD	St. Joseph's Hospital and Medical Center	BDCN
Amy H. Luke, PhD	Loyola University Medical School	NMS
Frances E. Lund, PhD	Trudeau Institute, Inc	IMM
Leslie H. Lundahl, PhD	Wayne State University	BBBP
Erik A. Lundquist, PhD	University of Kansas	MDCN
Susan M. Lunte, PhD	University of Kansas	BPC
Guangxiang Luo, MD	University of Kentucky	PPS
Ming Luo, PhD	University of Alabama at Birmingham	AARR
Donal S. Luse, PhD	Cleveland Clinic Foundation	CDF
Arthur J. Lustig, PhD	Tulane University Medical Center	IDM
Lawerence R. Lustig, MD	Johns Hopkins University	IFCN
Suniya S. Luthar, PhD	Columbia University	RPHB
Gerard A. Luty, PhD	Johns Hopkins Hospital	PPS
Larry Lutwick, MD	State University of New York Downstate Medical School	AARR
Robert L. Lux, PhD	University of Utah	SRB
Bruce A. Luxon, MD, PhD	St. Louis University	PPS
Katherine F. Luzuriaga, MD	University of Massachusetts Medical School, Worcester	AARR

Terry P. Lybrand, PhD	Vanderbilt University	BPC
Patrick D. Lyden, MD	Veterans Medical Research Foundation, San Diego	BDCN
Herbert K. Lyerly, MD	Duke University Medical Center	ONC
Bruce G. Lyeth, PhD	University of California, Davis	BDCN
Constantine G. Lyketsos, MD	Johns Hopkins University	BDCN
Douglas S. Lyles, PhD	Wake Forest University	GNS, IDM
William D. Lyman, PhD	Wayne State University	HOP
Carl Lynch, MD, PhD	University of Virginia, Charlottesville	SRB
Christopher J. Lynch, PhD	Pennsylvania State University College of Medicine	NMS
James C. Lynch, PhD	University of Nebraska Medical School	IMM
Richard G. Lynch, MD, PhD	University of Iowa College of Medicine	ONC
William P. Lynch, PhD	Northeastern Ohio Universities	BDCN
Michael A. Lynes, PhD	Applied Biophysics, Inc	CDF
Andrew L. Lyon, PhD	Georgia Institute of Technology	BPC
John S. Lyons, PhD	Northwestern University	RPHB
Michael J. Lyons, PhD	Boston University, Charles River Campus	HOP
Rick R. Lyons, MD, PhD	University of New Mexico	IDM
Anna Lysakowski, PhD	University of Illinois at Chicago	IFCN, MDCN
Leslie A. Lytle, PhD	University of Minnesota, Twin Cities	HOP
Yuri L. Lyubchenko, DSc, PhD	Arizona State University	CDF
Grace X. Ma, PhD	Temple University	HOP
Hong Ma, PhD	Pennsylvania State University, University Park	GNS
Jianjie Ma, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	MDCN
Jian-Xing Ma, MD, PhD	University of Oklahoma Health Sciences Center	BDCN
Joseph K. Ma, PhD	West Virginia University	PPS
Peter X. Ma, PhD	University of Michigan at Ann Arbor	MSD
Amy B. Mac Dermott, PhD	Columbia University	IFCN
James Mac Fall, PhD	Duke University Medical Center	SRB
Grace E. Macalino, PhD	Brown University	AARR
Ian G. Macara, PhD	University of Virginia	CDF
Maryellen C. MacDonald, PhD	University of Wisconsin, Madison	BBBP
Paul M. MacDonald, PhD	University of Texas at Austin	CDF
R. Loughlin MacDonald, MD, PhD	University of Chicago	BDCN
Ormond A. MacDougald, PhD	University of Michigan at Ann Arbor	NMS
Donald W. Macglashan, MD, PhD	Johns Hopkins University	MSD
Carolyn E. Machamer, PhD	Johns Hopkins University	CDF
Tina K. Machu, PhD	University of North Texas Health Science Center	IFCN
Thomas Maciag, PhD	Maine Medical Center	PPS
Robert J. Maciunas, MD	University Hospitals of Cleveland	SRB
Trudy F. Mackay, PhD	North Carolina State University	CDF
Alexander D. Mackerell, PhD	University of Maryland Baltimore Professional School	ONC
Michael A. Mackey, PhD	University of Iowa	ONC
George A. Mackie, PhD	Federation of American Societies For Experimental Biology	IDM
Kenneth P. Mackie, MD	University of Washington	MDCN
Thomas R. Mackie, PhD	University of Wisconsin	BPC
Jeffrey D. Macklis, DSc, MD	Massachusetts General Hospital	BDCN
J. Dick Maclean, MD	Montreal General Hospital	CDF
Robert S. Macleod, PhD	University of Utah	MDCN
Neil J. Maclusky, PhD	Columbia-Presbyterian Medical Center	IFCN
Jill A. Macoska, PhD	University of Michigan Medical Center	GNS
Mairead Macsweeney, PhD	University College, London	BBBP
Charles F. Mactutus, PhD	University of South Carolina	BBBP
John J. Madden, PhD	Emory University	AARR
Paul J. Maddon, MD, PhD	Progenics Pharmaceuticals, Inc	AARR
Hiten D. Madhani, MD, PhD	University of California, San Francisco	IDM
Murty V. Madiraju, PhD	University of Texas Health Center at Tyler	AARR, IDM
Roger D. Madison, PhD	Duke University Medical Center	CDF
Lawrence C. Madoff, MD	Brigham and Women's Hospital	IDM
Ernest L. Madsen, PhD	University of Wisconsin, Madison	SRB
Robert R. Madsen,	Chief Dull Knife College	IMM

Steen Madsen, PhD	University of Nevada, Las Vegas	ONC
Jeffrey D. Madura, PhD	Duquesne University	BCS
Holden T. Maecker, PhD	Stafford University	AARR
Jay S. Magaziner, PhD	University of Maryland	HOP
Paul T. Magee, PhD	University of Minnesota	IDM
John E. Maggio, PhD	University of Cincinnati	BDCN, CVS, MDCN
Jay Magidson, PhD	Statistical Innovations, Inc	RPHB
Karl L. Magleby, PhD	University of Miami School of Medicine	MDCN
Ronald R. Magness, MD, PhD	Federation of American Societies For Experimental Biology	ENR
Philip D. Magnus, DDS, DSc	University of Texas	BPC
Mark A. Magnuson, MD, PhD	Vanderbilt University	CDF
James H. Maguire, MD	Centers For Disease Control and Prevention	HOP
Bruce E. Magun, PhD	Oregon Health and Science University	ONC
Arul Mahadevan, MD	Cleveland Clinic Foundation	SRB
Gail B. Mahady, PhD	University of Illinois at Chicago	CDF
Jacquelyn J. Maher, MD	University of California, San Francisco	PPS
Pamela A. Maher, PhD	Scripps Research Institute	ENR
Veronica M. Maher, PhD	Michigan State University	ONC
Ellen K. Mahoney, DNSc	Boston College	RPHB
Maren L. Mahowald, MD	University of Minnesota	HOP
Roderick K. Mahurin, PhD	Battelle Centers/Public Health Research and Evaluation	BBBP
Andrew D.A. Maidment, PhD	Thomas Jefferson University	SRB
Stephan E. Maier, MD, PhD	Brigham and Women's Hospital	SRB
Nita J. Maihle, PhD	Yale University	ONC
Richard B. Mailman, PhD	University of North Carolina, Chapel Hill	MDCN
Arch G. Mainous, PhD	Medical University of South Carolina	SRB
Duncan J. Maitland, PhD	Lawrence Livermore National Laboratory	SRB
Umadas Maitra, PhD	Albert Einstein College of Medicine, Yeshiva University	CDF, IDM
Jacob V. Maizel, PhD	National Cancer Institute	MDCN
Stan Majewski, PhD	Physics Division, Jefferson Laboratory	SRB
Francois Major, PhD	University of Montreal	BCS
Marian E. Major, PhD	Food and Drug Administration	PPS
Patricia Major, MD	University of Miami School of Medicine	MSD
Sharmila Majumdar, PhD	University of California, San Francisco	HOP, MSD
Joseph A. Majzoub, MD	Joslin Diabetes Center	IFCN
Christopher Makaroff, PhD	Miami University, Oxford	GNS
Gabriel M. Makhoul, MD, PhD	Medical College of Virginia	SRB
Jonathan C. Makielski, MD	University of Wisconsin, Madison	CVS
Shinji Makino, DVM, PhD	University of Texas Medical Branch	IDM
Daniel Malamud, PhD	University of Pennsylvania	AARR
Jarema Malicki, PhD	Massachusetts Eye and Ear Infirmary	CDF
Kafait U. Malik, DSc, PhD	University of Tennessee Health Science Center	CVS
Roberto Malinow, MD, PhD	Cold Spring Harbor Laboratory	MDCN
Linda H. Malkas, PhD	Indiana University-Purdue University, Indianapolis	NMS, ONC
David Malkin, MD	Hospital For Sick Children	GNS
Ravi Malladi	Lawrence Berkeley National Laboratory	SRB
Surya K. Mallapragada, PhD	Iowa State University	BPC
Susan Maller, PhD	Purdue University	BBBP
Richard Malley, MD	Brigham and Women's Hospital	IDM
Craig R. Malloy, MD	University of Texas Southwestern Medical Center at Dallas	BPC, SRB
Peter C. Maloney, PhD	Johns Hopkins University	MSD
Alfred T. Malouf, PhD	Case Western Reserve University	MDCN
Beth A. Malow, MD	Vanderbilt University	BDCN
Laura A. Mamounas, PhD	National Institute of Neurological Disorders and Stroke	BDCN
Mark J. Mamula, PhD	Yale University	IMM
Mark M. Manak, PhD	Biotech Research Laboratories	AARR, GNS
Amita K. Manatunga, PhD	Emory University	CVS
Michael A. Mancini, PhD	Baylor College of Medicine	CDF
Tarun K. Mandal, PhD	Xavier University of Louisiana	CVS
Lawrence J. Mandarino, PhD	University of Texas Health Science Center	MSD

Ronald J. Mandel, PhD	University of Florida Brain Institute	BDCN
Jeanne S. Mandelblatt, MD, PhD	Georgetown University School of Medicine	BBBP
Patricia F. Maness, PhD	University of North Carolina	MDCN
Hari Manev, MD, PhD	University of Illinois at Chicago	BDCN
Giovanni Manfredi, MD, PhD	Weill Medical College of Cornell University	HOP
James J. Manfredi, PhD	Mount Sinai School of Medicine	ONC
Stuart C. Mangel, PhD	University of Alabama	CDF
Martin J. Mangino, PhD	Mount Sinai Medical Center, Miami Beach	CVS
Paul B. Manis, PhD	University of North Carolina	IFCN
David A. Mankoff, MD, PhD	University of Washington	ONC
James L. Manley, PhD	Columbia University	CDF
Jennifer J. Manly, PhD	Columbia University	BBBP, HOP
Dean L. Mann, MD	University of Maryland Baltimore Professional School	AARR, ONC
Douglas L. Mann, MD	Baylor College of Medicine	CVS
J. John Mann, MD, PhD	Columbia University	BBBP
Sharon L. Manne, PhD	Fox Chase Cancer Center	RPHB
Carmen A. Mannella, PhD	Wadsworth Center	CDF
James E. Manning, MD	University of North Carolina	CVS
Fabrice Manns, PhD	University of Miami School of Medicine	BDCN
Jonathan Mansbridge, PhD	Advanced Tissue Sciences, Inc	PPS, MSD
Louis M. Mansky, PhD	Ohio State University	AARR
William W. Mantulin, MD, PhD	University of Illinois	SRB
Thomas J. Manuccia, PhD	Schafer Corporation	MDCN
Adriana E. Manzi, PhD	Cytel Corporation	BPC
Chen Mao, PhD	Paradigm Pharmaceuticals, LLC	AARR
Jeremy J. Mao, DDS	University of Illinois at Chicago	MSD
Costas Maranas, PhD	Pennsylvania State University, University Park	BPC
Wayne A. Marasco, MD, PhD	Dana-Farber Cancer Institute	AARR
Eleftheria Maratos-Flier, MD	Joslin Diabetes Center	NMS
Eugene E. Marcantonio, MD, PhD	Columbia University	BCS
Cynthia L. Marcelo, PhD	University of Michigan at Ann Arbor	MSD
Keith L. March, MD, PhD	Indiana University-Purdue University, Indianapolis	CVS
Roger E. Marchant, PhD	Case Western Reserve University	BPC
Douglas A. Marchuk, PhD	Duke University Medical Center	BDCN, MSD
Michele S. Marcolongo, PhD	Drexel University	MSD
Richard T. Marconi, PhD	Virginia Commonwealth University	AARR
Craig B. Marcus, PhD	University of New Mexico Health Sciences Center	PPS
Marsha D. Marcus, PhD	University of Pittsburgh	NMS, RPHB
Seth R. Marder, PhD	University of Arizona	CVS
Elaine Mardis, PhD	Washington University	GNS
Graeme Mardon, MD, PhD	Baylor College of Medicine	CDF
Thomas H. Mareci, PhD	University of Florida	CDF
Gerard J. Marek, MD, PhD	Pfizer, Inc	IFCN
Stephen A. Maren, PhD	University of Michigan at Ann Arbor	IFCN
Susan R. Marengo, PhD	Case Western Reserve University	MSD
Julie A. Mares-Perlman, PhD	University of Wisconsin, Madison	CDF
Joseph F. Margiotta, PhD	Medical College of Ohio at Toledo	MDCN
Daniel Margoliash, PhD	University of Chicago	IFCN
Lee D. Margolin, PhD	FHC, Inc	BDCN
Benjamin L. Margolis, MD	University of Michigan at Ann Arbor	MSD
Henry C. Margolis, PhD	Forsyth Institute	MSD
Robert H. Margolis, PhD	Audiology, Inc	IFCN
Frank Marini, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Martin G. Marinus, PhD	University of Massachusetts Medical School, Worcester	IDM
Tony N. Marion, PhD	University of Tennessee Medical School	IMM
Roy A. Mariuzza, MD, PhD	University of Maryland Biotechnology Institute	BDCN
Mia K. Markey, PhD	University of Texas at Austin	SRB
Maurie Markman, MD	Cleveland Clinic Foundation	ONC
James F. Markmann, MD, PhD	Hospital of The University of Pennsylvania	IMM
Fred E. Markowitz, PhD	Northern Illinois University	RPHB

Morri E. Markowitz, MD	Montefiore Medical Center	BBBP
Sanford D. Markowitz, MD, PhD	Case Western Reserve University	ONC
Gerald A. Marks, PhD	University of Texas Southwestern Medical Center at Dallas	IFCN
Michael J. Marks, PhD	University of Colorado at Boulder	MDCN
Rory M. Marks, MB, MD	University of Michigan at Ann Arbor	IDM
Etan J. Markus, PhD	University of Connecticut, Storrs	IFCN
Sudhakar S. Marla, PhD	Nanosphere, Inc	CVS
Alan D. Marmorstein, PhD	University of Arizona	CDF, MDCN
Leticia M. Marquez-Magana, PhD	San Francisco State University	IDM
Mario B. Marrero, PhD	Medical College of Georgia	MSD, NMS
Gerard Marriott, PhD	University of Wisconsin	BPC
Richard T. Marrocco, PhD	University of Oregon	BBBP
Carl F. Marrs, PhD	University of Michigan at Ann Arbor	IDM
Lisa A. Marsch, PhD	University of Vermont and State Agricultural College	AARR
Marc E. Marschark, PhD	National Technical Institute For The Deaf	BBBP
Richard L. Marsh, PhD	Northeastern University	MSD
David W. Marshak, PhD	University of Texas Health Science Center, Houston	CDF
Gailen D. Marshall, MD, PhD	University of Texas Health Science Center, Houston	SRB
Mary Faith Marshall, PhD	Harper Hospital	HOP
Daniel C. Marson, JD, PhD	University of Alabama at Birmingham	BBBP, HOP
Billy R. Martin, PhD	Virginia Commonwealth University	BDCN
Charles R. Martin, PhD	University of Florida	BPC
David C. Martin, PhD	University of Michigan at Ann Arbor	BPC
Eden R. Martin, PhD	Duke University Medical Center	GNS
Edward W. Martin, MD	Ohio State University	ONC
Estralita M.E. Martin, PhD	University of California, San Diego	IMM
Gregory T. Martin, PhD	Thermal Technologies, Inc	BDCN
Jack K. Martin, PhD	Kent State University	HOP
Kelsey C. Martin, MD, PhD	University of California, Los Angeles	MDCN
Lee J. Martin, PhD	Johns Hopkins University	BDCN
Lenore M. Martin, PhD	University of Rhode Island	BCS
R. Bruce Martin, PhD	University of California, Davis	MSD
Sandra L. Martin, PhD	University of Colorado Health Sciences Center	GNS
Thomas F. Martin, PhD	University of Wisconsin	MDCN
Yvonne C. Martin, PhD	Abbott Laboratories	BPC
Jesse D. Martinez, PhD	University of Arizona	ONC
Olivia M. Martinez, PhD	Stanford University	SRB
Bonnie J. Martin-Harris, PhD	Medical University of South Carolina	SRB
Maryann E. Martone, PhD	University of California, San Diego	BDCN, CDF
Brian P. Marx, PhD	Temple University	RPHB
Preston A. Marx, PhD	Tulane Regional Primate Research Center	AARR
George A. Marzluf, PhD	Ohio State University	GNS
Deborah C. Mash, PhD	University of Miami School of Medicine	BDCN
Eliezer Masliah, MD	University of California, San Diego	AARR, BDCN, MDCN
Andrew L. Mason, MBBS	University of Alberta	AARR
Carol M. Mason, MD	Louisiana State University Health Sciences Center, New Orleans	AARR
Hugh S. Mason, PhD	Boyce Thompson Institute For Plant Research	BCS
Thomas L. Mason, PhD	University of Massachusetts, Amherst	BPC
William S. Mason, PhD	Oncovax, LLC	GNS
Stephen C. Massey, PhD	University of Texas Health Science Center, Houston	CDF
Stephen P. Massia, PhD	Arizona State University	MSD
Paul Massman, PhD	University of Houston	BDCN
Robert W. Massof, PhD	Emerald Events, Inc	BBBP, CDF
Michael Masson, PhD	University of Victoria	BBBP
Alan E. Mast, MD, PhD	Blood Center of Southeastern Wisconsin	CVS
Ann S. Masten, PhD	University of Minnesota	RPHB
Carlos H. Mastrangelo, PhD	Corning-Intellisense	GNS
Andrea M. Mastro, PhD	Pennsylvania State University	ONC
Anna C. Mastroianni, Jd	University of Washington	GNS
Sandra K. Masur, PhD	Mount Sinai School of Medicine	BDCN

Daniel H. Mathalon, MD	SRI International	BDCN
Timothy A. Mather, PhD	Oklahoma Medical Research Foundation	CVS
Gary W. Mathern, MD	University of California, Los Angeles	BDCN
William D. Mathers, MD, PhD	Oregon Health and Science University	BDCN
Richard T. Mathias, PhD	State University of New York at Stony Brook	BDCN
Subbi P. Mathur, PhD	Medical University of South Carolina	ENR
Sandra J. Matsuda, PhD	University of Missouri, Columbia	MSD
Fumio Matsumura, PhD	Rutgers University	CDF
Philip Matsumura, PhD	University of Illinois at Chicago	BPC, IDM
Terry O. Matsunaga, PhD	Imarx Therapeutics, Inc	BPC
Yasuji Matsuoka, PhD	Georgetown University	BDCN
Shannon G. Matta, PhD	University of Tennessee Health Science Center	IFCN
Howard W. Matthew, PhD	Wayne State University	MSD
C. Robert Matthews, PhD	Protein Society	BPC
Charles E. Matthews, PhD	University of South Carolina at Columbia	HOP
Dana C. Matthews, MD	Fred Hutchinson Cancer Research Center	ONC
Dwight E. Matthews, PhD	University of Vermont and State Agricultural College	ENR
Jeffrey B. Matthews, MD	University of Cincinnati	SRB
Rowena G. Matthews, PhD	University of Michigan at Ann Arbor	BPC
Stephen A. Matthews, PhD	Pennsylvania State University	HOP
Michael J. Matunis, PhD	Johns Hopkins University	BCS
George M. Matuschak, MD	St. Louis University	SRB
Nicholas A. Matwiyoff, PhD	University of New Mexico, Albuquerque	BDCN
Andrew A. Maudsley, PhD	University of Miami School of Medicine	SRB
Nilanjana Maulik, PhD	University of Connecticut Medical Center	CVS
Julie A. Maupin-Furlow, PhD	University of Florida	IDM
Anthony T. Maurelli, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	IDM
Kenneth A. Mauritz, PhD	University of Southern Mississippi	BPC
Michael R. Maurizi, PhD	National Cancer Institute	IDM
Gary M. Mawe, PhD	University of Vermont	PPS
Daniel Mawhinney,	MMTC Inc	SRB
Annette E. Maxwell, DPH, DrPH	University of California, Los Angeles	HOP
Gregory S. May, MD, PhD	Baylor College	GNS
Jonathan Maybaum, PhD	University of Michigan at Ann Arbor	ONC
Linda J. Mayberry, PhD	New York University	HOP
Rachel I. Mayberry, PhD	McGill University	BBBP
Bruce J. Mayer, PhD	University of Connecticut Health Center	ONC
John E. Mayer, MD	Children's Hospital, Boston	MSD
Jonathan D. Mayer, PhD	University of Washington	HOP
Stephan A. Mayer, MD	Columbia University Health Science Center	BDCN
Margot Mayer-Proschel, PhD	University of Rochester	MDCN
Douglas L. Mayers, MD	Boehringer Ingelheim Pharmaceuticals, Inc	AARR
Linda C. Mayes, MD	Yale University School of Medicine	RPHB
Philip R. Mayeux, PhD	University of Arkansas For Medical Sciences	PPS
Stephen P. Mayfield, PhD	Scripps Research Institute	BCS
Susan T. Mayne, PhD	Yale University School of Medicine	HOP
Marty W. Mayo, PhD	University of Virginia	ONC
Ulrich E. Mayr, DrPH, PhD	University of Oregon	BBBP
Mary Z. Mays, PhD	University of Arizona	RPHB
Andrew P. Mazar, PhD	Attenuon, LLC	BCS
Steven A. Mazzuca, PhD	Indiana University-Purdue University, Indianapolis	RPHB
David J. Mc Adoo, PhD	University of Texas Medical Branch at Galveston	IFCN
Kimberley Mcallister, PhD	University of California, Davis	MDCN
Edward McAuley, PhD	University of Illinois	RPHB
Chris J, McBain, PhD	National Institute of Child Health and Human Development	MDCN
Colleen M. McBride, PhD	Duke University	RPHB
William H. McBride, DSc, PhD	University of California, Los Angeles	ONC
Michael J. McCabe, PhD	University of Rochester School of Medicine and Dentistry	PPS
Michael J. McCaffery, PhD	Johns Hopkins University	CDF
Nancy L. McCain, Dnsc,	Virginia Commonwealth University	AARR, MSD

William V. McCall, MD	Wake Forest University Health Sciences	BBBP
Russell L. McCally, PhD	Johns Hopkins University	BDCN, MDCN
Barbara S. McCann, PhD	University of Washington School of Medicine	BBBP
Una D. McCann, MD	Johns Hopkins University	BDCN
Robin L. McCarley, PhD	Louisiana State University	BCS
James B. McCarthy, PhD	University of Minnesota Cancer Center	ONC
Kevin J. McCarthy, PhD	Louisiana State University	MSD
Margaret M. McCarthy, PhD	University of Maryland	IFCN
Kevin D. McCaul, PhD	North Dakota State University	RPHB
Ann P. McCauley, PhD	Population Council	AARR
Linda A. McCauley, PhD	Oregon Health and Science University	BBBP, HOP
Bruce A. McClane, PhD	University of Pittsburgh	IDM
Jennifer B. McClure, PhD	Group Health Cooperative of Puget Sound	RPHB
Roderick McColl, PhD	University of Texas	SRB
W. Richard McCombie, PhD	Cold Spring Harbor Laboratory	GNS
Candace C. McCombs, PhD	Sequella, Inc	IMM
Rose M. McConnell, PhD	University of Arkansas	BCS
Marian G. McCord, PhD	Duke University	MSD
Kathleen M. McCormick, PhD	State University of New York at Buffalo	MSD
Paulette J. McCormick, PhD	State University of New York at Albany	ONC
Mark E. McCourt, PhD	North Dakota State University	IFCN
Thomas J. McCown, PhD	University of North Carolina	BDCN
John P. McCoy, PhD	National Heart, Lung and Blood Institute	HEME
John L. McCracken, PhD	Michigan State University	BPC
Douglas B. McCreery, PhD	Huntington Medical Research Institutes	BPC
Donald R. McCrimmon, PhD	Northwestern University	IFCN, PPS
Megan A. McCrory, PhD	Tufts University	HOP
James A. McCubrey, PhD	East Carolina University	ONC
Jonathan A. McCullers, MD	St. Jude Children's Research Hospital	IDM
Kevin K. McCully, PhD	University of Georgia	MSD
Joseph M. McCune, MD, PhD	J. David Gladstone Institutes	AARR
Robert S. McCuskey, PhD	University of Arizona	CDF
Melissa A. McDiarmid, MD	University of Maryland School of Medicine	HOP
Thomas V. McDonald, MD	Yeshiva University	CVS
William M. McDonald, MD	Emory University	BDCN
Alicia A. McDonough, PhD	University of Southern California	PPS, MSD
Kathleen A. McDonough, PhD	Wadsworth Center	IDM
Susan C. McDonough, PhD	University of Michigan at Ann Arbor	RPHB
Joan M. McDowd, PhD	University of Kansas Medical Center	BBBP
Laura McDowell, PhD	Pfizer Global Research and Development	GNS
Lisa A. McElaney	Vida Health Communications, Inc	RPHB
M. Juliana McElrath, MD, PhD	Keystone Symposia	AARR
Brian D. McElree, PhD	New York University	BBBP
Cathy L. McEvoy, PhD	University of South Florida	BBBP
David H. McFarland, PhD	University of Montreal	BBBP
M. Christine McGahan, PhD	North Carolina State University, Raleigh	BDCN
Locksley McGann, PhD	University of Alberta	PPS, MSD
Maria P. McGee, MD	Wake Forest University Health Sciences	HEME
Richard McGee, MD, PhD	Mayo Clinic, Rochester	CDF
Robert E. McGehee, PhD	University of Arkansas For Medical Sciences	NMS
Joseph P. McGillis, PhD	University of Kentucky Medical Center	IDM, IFCN
Derek McGilvray, PhD	Optiferm Consulting Services	IDM
Jacqueline F. McGinty, PhD	Medical University of South Carolina	IFCN
Paul McGonigle, MD, PhD	University of Pennsylvania	IFCN
Jane E. McGowan, MD	Johns Hopkins University	SRB
Linda B. McGown, PhD	Duke University	GNS
Melanie L. McGrath, PhD	Tulane University	RPHB
Marion McGregor, DC	Texas Chiropractic College	MSD
Matt McGue, PhD	University of Minnesota	HOP
Joseph McGuire, PhD	Oregon State University	MSD

Travis C. McGuire, DVM, PhD	Washington State University	AARR
Anthony J. McHugh, PhD	Lehigh University	BCS
William J. McIlvane, PhD	University of Massachusetts Medical School, Worcester	RPHB
Richard A. McIndoe, PhD	Medical College of Georgia	GNS
Joseph D. McInerney	Foundation For Genetic Education and Counseling	GNS
Melvin G. McInnis, MD	Johns Hopkins University	GNS
Larry V. McIntire, PhD	Georgia Institute of Technology	SRB
Mark A. McIntosh, PhD	University of Missouri, Columbia	IDM
Bradley W. McIntyre, PhD	University of Texas	IMM
Lauren M. McIntyre, PhD	Purdue University	GNS
Sherry Ann McKee, PhD	Yale University	RPHB
Robert J. McKeon, PhD	Emory University	BDCN
James H. McKerrow, MD, PhD	University of California, San Francisco	IDM
Stuart J. McKinnon, MD, PhD	University of Texas Health Science Center at San Antonio	BDCN
Sara S. McLanahan, PhD	Princeton University	HOP
Mark L. McLaughlin, PhD	H. Lee Moffitt Cancer Center and Research Institute	BPC
Patricia J. McLaughlin, PhD	Pennsylvania State University College of Medicine	ENR
Stuart G. McLaughlin, PhD	State University of New York at Stony Brook	BPC
Joanne McLaurin, PhD	University of Toronto	MDCN
Gordon Scott McLean, PhD	The Confederated Tribes of Warm Springs	BBBBP, RPHB
Ian W. McLean, MD	Armed Forces Institute of Pathology	MDCN
Kenneth J. McLeod, PhD	State University of New York at Binghamton	ONC
Francis J. McMahan, MD	National Institute of Mental Health	HOP
Robert J. McMahan, PhD	University of Washington	RPHB
William M. McMahan, MD, PhD	University of Utah Red Butte Clinic	BDCN
Jeanie B. McMillin, PhD	University of Texas Health Science Center, Houston	CVS
Cynthia T. McMurray, PhD	Mayo Clinic, Rochester	BDCN
David N. McMurray, PhD	Baylor College of Medicine	IDM
John S. McMurray, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Elizabeth M. McNally, MD, PhD	University of Chicago	MSD
Kevin S. McNaught, PhD	Mount Sinai School of Medicine	MDCN
Daniel W. McNeil, PhD	West Virginia University	BBBBP
Roger J. McNichols, PhD	Biotex, Inc	MSD, SRB
Ian K. McNiece, PhD	Johns Hopkins University	MSD
Linda C. McPhail, PhD	Society For Leukocyte Biology	BPC
Alexander McPherson, PhD	University of California, Irvine	BPC, IDM
David D. McPherson, MD	Northwestern University	BCS, SRB
David L. McPherson, PhD	Brigham Young University	IFCN
Peter S. McPherson, PhD	McGill University	MDCN
Timothy M. McPhillips	Stanford Synchrotron Radiation Lab	BPC
Charlene A. McQueen, PhD	University of Arizona	PPS
David J. McQuillan, PhD	Lifecell Corporation	MSD
Duncan E. McRee, PhD	Syrxx, Inc	BCS, BPC
Michael J. McShane, PhD	Louisiana Tech University	SRB
Kevin T. McVary, MD	Northwestern University	MSD
Khisimuzi E. Mdluli, PhD	Chiron Corporation	IDM
J. Chris Meade, PhD	University of Mississippi Medical Center	AARR, IDM
Thomas J. Meade, PhD	Northwestern University	MDCN
Paul M. Meaney, PhD	Microwave Imaging System Technologies	SRB
Claude F. Meares, PhD	University of California, Davis	BPC, MSD
Warren H. Meck, PhD	Duke University	BBBBP
Joan C. Meccas, PhD	Tufts University	IDM
Deborah R. Medoff, PhD	University of Maryland	BDCN
Peter G. Medveczky, MD	University of South Florida	AARR, IMM
Ruslan M. Medzhitov, PhD	Yale University	IMM
Allen Meek, MD	University Hospital	ONC
Ranganwamy Meganathan, PhD	Northern Illinois University	AARR
Mark F. Mehler, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	BDCN, MDCN
Devan V. Mehrotra, PhD	Merck Research Laboratories	AARR
Pankaj D. Mehta, PhD	Institute For Basic Research In Developmental Disabilities	BDCN

Lin Mei, MD, PhD	University of Alabama	MDCN
Gerald A. Meininger, PhD	Texas Engineering Experiment Station	MSD
Janet C. Meininger, PhD	University of Texas Health Science Center, Houston	HOP
Robert L. Meisel, PhD	Purdue University	IFCN
Gerhard W. Meissner, PhD	University of North Carolina	CVS
Peter W. Melera, PhD	University of Maryland School of Medicine	ONC
Haley E. Melikian, PhD	University of Massachusetts Medical School, Worcester	MDCN
Ronald L. Mellgren, PhD	Medical College of Ohio at Toledo	BCS
Ira S. Mellman, PhD	Yale University School of Medicine	CDF
Nancy K. Mello, MD, PhD	McLean Hospital (Belmont, MA)	BBBP
Isabel Mellon, PhD	University of Kentucky	ONC
Pamela L. Mellon, PhD	University of California, San Diego	ENR
Andrew L. Mellor, PhD	Medical College of Georgia	BPC
Arnold Melman, MD	Yeshiva University	MSD
Carolyn C. Meltzer, MD, PhD	University of Pittsburgh	BDCN
Andrew N. Meltzoff, PhD	University of Washington	BBBP
Lorne M. Mendell, PhD	State University of New York at Stony Brook	IFCN
Cathy L. Mendelsohn, PhD	Columbia University Health Science Center	MSD
Michael D. Mendenhall, PhD	University of Kentucky Medical Center	CDF
Pedro Mendes, PhD	Virginia Tech	BPC, GNS, MDCN
Marilyn Mendolia, PhD	University of Mississippi	RPHB
Sally P. Mendoza, PhD	University of California, Davis	BBBP
Fred M. Menger, PhD	Emory University	BPC
Jay E. Menitove, MD	Community Blood Center of Greater Kansas City	CVS
Steven J. Mennerick, PhD	Washington University	MDCN
Anil G. Menon, PhD	University of Cincinnati	BCS
Antoine L. Menoret, PhD	University of Connecticut School of Medicine and Dentistry	IMM
Kojo A. Mensa-Wilmot, PhD	University of Georgia	IDM
Laura R. Ment, MD	Yale University	HOP
William C. Mentzer, MD	University of California, San Francisco	HOP
Zulfiquar Merali, PhD	University of Ottawa	IFCN
Fatima A. Merchant, PhD	Advanced Digital Imaging Research, LLC	SRB
Juanita L. Merchant, MD, PhD	University of Michigan at Ann Arbor	PPS
Mahesh H. Merchant, PhD	Pharmacia Corporation	SRB
Renee-Claude Mercier, PhD	University of New Mexico	IDM
Arthur M. Mercurio, MD, PhD	Beth Israel Deaconess Medical Center	ONC
Ruby F. Meredith, MD, PhD	University of Alabama	ONC
Stephen C. Meredith, MD, PhD	University of Chicago	BPC
David J. Merkler, PhD	University of South Florida	BCS
Robin J. Mermelstein, DPH	University of Illinois at Chicago	HOP
Carl R. Merrill, MD	National Institute of Mental Health	IDM
Alfred H. Merrill, PhD	Georgia Institute of Technology	CVS
Stephen J. Merrill, PhD	Marquette University	BPC
Diane E. Merry, PhD	University of Pennsylvania	MDCN
Howard R. Mertz, MD	Vanderbilt University School of Medicine	RPHB
Patricia M. Mertz	University of Miami School of Medicine	SRB
Jon Merz, JD, PhD	University of Pennsylvania	GNS
Kenneth M. Merz, PhD	Pennsylvania State University	BPC
Andrew D. Mesecar, PhD	Lybradyn, Inc	BCS
Steven R. Meshnick, MD, PhD	University of Michigan	AARR, IDM
Jill P. Mesirov, PhD	Massachusetts Institute of Technology	MDCN
Phillip B. Messersmith, PhD	Northwestern University	MSD
Albee V. Messing, DVM, PhD	University of Wisconsin	BDCN
Robert O. Messing, MD	University of California	IFCN
Janet A. Metcalfe, PhD	Columbia University	IFCN
Lisa R. Metsch, PhD	University of Miami	AARR
Kenneth Metz, PhD	Boston College	SRB
Dennis W. Metzger, PhD	Albany Medical College of Union University	MSD
Michael L. Metzker, PhD	Lasergen	GNS
Anne Meyer, PhD	University of Buffalo	NMS, SRB

Brian Lee Meyer, PhD	Virginia Treatment Center For Children	RPHB
Charles R. Meyer, PhD	University of Michigan at Ann Arbor	SRB
Edwin M. Meyer, PhD	University of Florida	BDCN
Jerrold S. Meyer, PhD	University of Massachusetts, Amherst	BDCN
Laurence Meyer, MD, PhD	University of Utah	HOP
Michael G. Meyer,	Toborg Associates, Inc	RPHB
Ronald A. Meyer, PhD	Michigan State University	MSD
M. Elizabeth Meyerand, PhD	University of Wisconsin System	SRB
Beth E. Meyerowitz, PhD	University of Southern California	RPHB
Christina A. Meyers, PhD	University of Texas M.D. Anderson Cancer Center	RPHB
Reuben S. Mezrich, MD, PhD	Brigham and Women's Hospital	SRB
Paul E. Micevych, PhD	University of California, Los Angeles	IFCN
Adrian C. Michael, PhD	University of Pittsburgh	BPC
Lloyd H. Michael, PhD	Baylor College of Medicine	CDF
Thomas M. Michel, MD, PhD	Brigham and Women's Hospital	CVS
Hillary B. Michelson, PhD	State University of New York Downstate Medical Center	BDCN
Bozena B. Michniak, PhD	University of Medicine and Dentistry of New Jersey	BPC
Rosemarie Mick,	University of Pennsylvania	ONC
Lynda Mickleborough, MD	Toronto General Hospital	SRB
Klaus A. Miczek, PhD	New York Academy of Sciences	IFCN
John C. Middlebrooks, PhD	University of Michigan	IFCN
Lucio Miele, MD, PhD	University of Illinois at Chicago	ONC
Dale F. Mierke, MD, PhD	Brown University	BPC, MDCN
Steven W. Mifflin, PhD	University of Texas Health Science Center	PPS
Emmanuel J. Mignot, MD, PhD	Stanford University	BDCN
Edward Miguel, PhD	University of California, Berkeley	AARR
Risto Miikkulainen, PhD	University of Texas at Austin	MDCN
Takashi Mikawa, PhD	Cornell University Medical College	CVS
Borjana Mikic, PhD	Smith College	MSD
Tom Mikkelsen, MD	Henry Ford Health System	BDCN
Antonios G. Mikos, PhD	Rice University	MSD
William P. Milberg, PhD	Harvard University Medical School	BBBP
D. Howard Miles, PhD	University of Central Florida	CDF
Dianna M. Milewicz, MD, PhD	University of Texas Health Science Center, Houston	CVS, IMM
Richard A. Millius, PhD	Sigma-Aldrich Research Biochemical	MDCN
David P. Millar, PhD	Scripps Research Institute	GNS
Andrew H. Miller, MD	Emory University	AARR, BBBP
Barbara A. Miller, MD, PhD	Weis Center For Research-Geisinger Clinic	AARR
Bruce L. Miller, PhD	University of Idaho	BBBP
Carol T. Miller, PhD	University of Vermont	RPHB
D. Craig Miller, MD	Stanford University	CDF
Donald M. Miller, MD, PhD	University of Louisville School of Medicine	ONC
Donald W. Miller, PhD	University of Nebraska Medical Center	BDCN
Earl K. Miller, PhD	Massachusetts Institute of Technology	IFCN
Gregory A. Miller, PhD	University of Illinois at Urbana-Champaign	RPHB
Ivan W. Miller, PhD	Brown University	BBBP
J. Philip Miller,	Washington University	MSD
James G. Miller, PhD	Washington University	SRB
Jeffery F. Miller, PhD	University of California, Los Angeles	IDM
Joel M. Miller, PhD	Smith-Kettlewell Eye Research Institute	BDCN
John P. Miller, PhD	Montana State University, Bozeman	MDCN
Lee E. Miller, PhD	Northwestern University	IFCN
Leslie M. Miller, PhD	Rice University	BBBP
Lisa M.S. Miller, PhD	Brandeis University	BBBP
Michael Miller, MD	University of Maryland Medical Center	HOP
Michael W. Miller, PhD	State University of New York Upstate Medical University	IFCN
Paul S. Miller, PhD	Johns Hopkins University	BCS
Ralph R. Miller, PhD	State University of New York at Binghamton	BBBP
Robert H. Miller, MD, PhD	Case Western Reserve University	MDCN
Samuel I. Miller, MD	University of Washington	IDM

Scott J. Miller, PhD	Boston College	BPC
Timothy R. Miller, PhD	University of Kentucky	MSD
Virginia L. Miller, PhD	Washington University School of Medicine	IDM
Wilson H. Miller, MD, PhD	McGill University	ONC
Carol L. Miller-Graziano, PhD	University of Massachusetts Medical School, Worcester	SRB
Clarke F. Millette, PhD	University of South Carolina at Columbia	ENR, IMM
Carol E. Milligan, PhD	Wake Forest University Health Sciences	BDCN
Gregg N. Milligan, PhD	University of Texas Medical Branch at Galveston	IMM
Ronald A. Milligan, PhD	Scripps Research Institute	BPC
Dawn S. Milliner, MD	Mayo Clinic, Rochester	MSD
Gordon B. Mills, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Paul J. Mills, PhD	University of California, San Diego	BBBP
Peter Milne, PhD	National Science Foundation	BDCN
Eric C.B. Milner, PhD	Vaccinex, Inc	AARR
Teresa A. Milner, PhD	Cornell University Medical Center	IFCN
Thomas E. Milner, PhD	University of Texas at Austin	SRB
Donald K. Milton, DRPH, MD	Harvard University School of Public Health	MSD
Mina Mina, DDS, DMD	University of Connecticut	MSD
Audrey G. Minden, PhD	Columbia University	CDF
Beth A. Mineo Mollica, PhD	University of Delaware	BBBP
Jeffrey H. Miner, PhD	Washington University	MSD
Lloyd B. Minor, PhD	Johns Hopkins University	IFCN, MSD
Bruce D. Minsky, MD	Memorial Sloan-Kettering Cancer Center	ONC
Keith P. Mintz, PhD	University of Vermont	MSD
Gary A. Mirka, PhD	North Carolina State University, Raleigh	HOP
John Mirowsky, PhD	University of Texas at Austin	RPHB
Kunio Misono, PhD	Cleveland Clinic Foundation	HEME
Bijoy M. Misra, PhD	Harvard University	RPHB
Paul J. Missel, PhD	Alcon Research Ltd	MDCN
Tom Misteli, PhD	National Cancer Institute	CDF
Aaron P. Mitchell, PhD	Marine Biological Laboratory	IDM
Braxton D. Mitchell, PhD	University of Maryland	ENR
Gordon S. Mitchell, PhD	University of Wisconsin	PPS, IFCN
James E. Mitchell, MD	Neuropsychiatric Research Institute	BBBP, RPHB
Laura E. Mitchell, PhD	Texas A&M University Health Science Center	HOP
Richard J. Mitchell, PhD	University of Kentucky	MSD
Wendy G. Mitchell, MD	Children's Hospital Los Angeles	BDCN
Ashim K. Mitra, PhD	University of Missouri, Kansas City	BPC, CVS, ONC
Sankar Mitra, PhD	University of Texas Medical Branch	ONC
Samir Mitragotri, PhD	University of California, Santa Barbara	BCS
Jay E. Mittenthal, PhD	University of Illinois	GNS
Nahid F. Mivechi, PhD	Medical College of Georgia	ONC
Suzanne Miyamoto, PhD	University of California, Davis	ONC
Andrew Mizisin, PhD	University of California, San Diego	BDCN
Charles V. Mobbs, PhD	Mount Sinai School of Medicine	ENR, MDCN
Paul J. Moberg, PhD	University of Pennsylvania Medical Center	BBBP
Harry L.T. Mobley, PhD	University of Maryland Baltimore Professional School	IDM
Jeremiah Mock, PhD	University of California, San Francisco	HOP
Robert L. Modlin, MD	University of California, Los Angeles	IMM
Istvan Mody, PhD	University of California, Los Angeles	MDCN
Jeffrey Moehlenbruck, PhD	University of North Carolina	MSD
Phillip T. Moen, PhD	One Cell Systems, Inc	AARR
David F. Moffett, PhD	Washington State University	IDM
Chandra Mohan, MD, PhD	University of Texas Southwestern Medical Center at Dallas	IMM, GNS
Radhe Mohan, PhD	University of Texas M.D. Anderson Cancer Center	ONC
T. Mohanakumar, DVM, PhD	Washington University	SRB
Sukhbir S. Mokha, PhD	Meharry Medical College	IFCN
Lyle Moldawer, PhD	University of Florida	ONC
Robert S. Molday, PhD	University of British Columbia	CDF
Robert M. Moldwin, MD	Long Island Jewish Medical Center	MSD

Dennis L. Molfese, PhD	Neuronetrix, Inc	BDCN
Margaret L. Moline, PhD	New York Hospital	BBBP
Ian J. Molineux, PhD	University of Texas at Austin	IDM
Tadeusz F. Molinski, PhD	University of California, Davis	AARR
Jeffrey J. Molldrem, MD	University of Texas M.D. Anderson Cancer Center	ONC
Sabee Y. Molloy, PhD	University of California	SRB
Deborah C. Molrine, MD	Dana-Farber Cancer Institute	AARR
Alfonso Mondragon, PhD	Northwestern University	BPC
Linda D. Moneyham, DNSc	University of South Carolina at Columbia	AARR
Timothy H. Monk, DSc	Western Psychiatric Institute and Clinic	HOP, IFCN
Terrence J. Monks, PhD	University of Arizona	ONC
John G. Monroe, PhD	University of Pennsylvania	BPC
Scott M. Monroe, PhD	University of Oregon	BBBP
Luis J. Montaner, DVM, PhD	Wistar Institute	AARR
Mervyn J. Monteiro, PhD	University of Maryland Biotechnology Institute	MDCN
Margo J. Monteith, PhD	University of Kentucky	RPHB
Craig Montell, PhD	Federation of American Societies For Experimental Biology	CDF
Joann M. Montepare, PhD	Emerson College	RPHB
Bruce R. Montgomery, MD	University of Washington	ONC
Erwin B. Montgomery, MD	Cleveland Clinic Foundation	BDCN
John Montgomery, PhD	Wayne State University	BPC
Paul C. Montgomery, PhD	Wayne State University	BDCN
Susanne B. Montgomery, PhD	Loma Linda University	AARR
Isaac D. Montoya, PhD	Affiliated Systems Corporation	AARR
Susan L. Mooberry, PhD	Southwest Foundation For Biomedical Research	ONC
Dixon M. Moody, MD	Wake Forest University Health Sciences	SRB
Sally A. Moody, PhD	George Washington University Medical Center	GNS
David J. Mooney, PhD	Gordon Research Conferences	MSD
Richard D. Mooney, PhD	Duke University	IFCN
Christopher A. Moore, PhD	University of Washington	BBBP
Colleen Moore, PhD	University of Wisconsin	BBBP
Dan H. Moore, PhD	University of California	ONC
David D. Moore, PhD	Baylor College of Medicine	NMS
Edwin G. Moore, PhD	Baxter Healthcare Corp.	MSD
Frank L. Moore, PhD	Oregon State University	IFCN
Ginger A. Moore, PhD	Duke University	RPHB
Hsiao-Ping H. Moore, PhD	University of California	CDF
Ida M. Moore, Dnsc	University of Arizona	HOP
Jonni S. Moore, PhD	University of Pennsylvania	CVS, HEME
Kateri A. Moore, DVM, PhD	Princeton University	NMS
Malcolm A.S. Moore, DPH	Stemline Therapeutics, Inc	CDF
Reagan Moore, PhD	University of California, San Diego	MDCN
Russell L. Moore, PhD	University of Colorado at Boulder	MSD
Shirley M. Moore, PhD	Case Western Reserve University	RPHB
Stephen C. Moore, PhD	Brigham and Women's Hospital	SRB
Patricia G. Moorman, PhD	Duke University	HOP
Bhagavatula Moorthy, PhD	Baylor College of Medicine	PPS
Vincent Mor, PhD	Brown University	HOP
Teresa I. Morales, PhD	Massachusetts General Hospital	MSD
Antoinette M. Moran, MD	University of Minnesota	NMS
Charles P. Moran, PhD	Emory University	IDM
Thomas M. Moran, PhD	Mount Sinai School of Medicine	IMM
Timothy H. Moran, MD, PhD	Johns Hopkins University	IFCN
Maria T. Morandi, PhD	University of Texas Health Science Center, Houston	HOP
Laurence M. Morel, PhD	University of Florida	GNS
Robert S. Moreland, PhD	Drexel University	MSD
Kelley W. Moremen, PhD	University of Georgia	BPC
Alberto Moreno, MD	Emory University	AARR
Bernard M.E. Moret, PhD	University of New Mexico	BPC
Leslie C. Morey, PhD	Texas A&M University	BBBP

Edward T. Morgan, PhD	Emory University	CVS
Lee R. Morgan, MD, PhD	Dekk-Tec, Inc	ONC
Richard A. Morgan, PhD	National Human Genome Research Institute	GNS
William F. Morgan, DSc	University of Maryland School of Medicine	ONC
William T. Morgan, PhD	University of Missouri	BCS
Susan Morgello, MD	Mount Sinai School of Medicine	AARR
Susumu Mori, PhD	Johns Hopkins University	MDCN
David A. Morilak, PhD	University of Texas Health Center	IFCN
Lawrence P. Morin, PhD	State University of New York at Stony Brook	IFCN
Patricia J. Morokoff, PhD	University of Rhode Island	AARR
Eduardo G. Moros, PhD	Washington University School of Medicine	ONC
Glenn Morris, MD	University of Maryland Baltimore Professional School	HOP
John B. Morris, PhD	University of Connecticut	IDM
John C. Morris, MD, PhD	Washington University	BDCN
Martha C. Morris, DSc, ScD	Rush University	HOP
Michael D. Morris, PhD	University of Michigan	BPC
Patricia L. Morris, PhD	Population Council	NMS
Stephan W. Morris, MD	St. Jude Children's Research Hospital	ONC
Adrian R. Morrison, DVM, PhD	University of Pennsylvania	IFCN
Peter A. Morrison, PhD	Rand Corporation	HOP
Richard P. Morrison, PhD	Montana State University, Bozeman	IDM
Richard S. Morrison, PhD	University of Washington	IMM
Trudy G. Morrison, PhD	University of Massachusetts Medical School, Worcester	IDM
Richard L. Morrissey, MD	Georgetown University Hospital	SRB
Casey D. Morrow, PhD	University of Alabama at Birmingham	AARR, IMM
Daniel G. Morrow, PhD	University of Illinois at Urbana-Champaign	RPHB
Gary R. Morrow, PhD	University of Rochester	SRB
Lisa A. Morrow, PhD	Western Psychiatric Institute and Clinic	BBBP
W. J.W. Morrow, PhD	University of Washington	IMM
Edward V. Morse, PhD	Tulane University Medical School	AARR
Randall H. Morse, PhD	Wadsworth Center	CDF, IDM
Kathryn A. Morton, MD	Wake Forest University Health Sciences	CDF, SRB
Ronald A. Morton, MD	Baylor College of Medicine	ONC
Dale W. Mosbaugh, PhD	Oregon State University	ONC
Paul J. Mosca, MD, PhD	Duke University Medical Center	ONC
David A. Moscatelli, PhD	New York University Medical Center	MSD
Anna-Barbara B. Moscicki, MD	University of California, San Francisco	AARR
Michael E. Moseley, PhD	Stanford University	BBBP, BDCN
Debra Moser, DNSc	University of Kentucky	HOP
Stephen A. Moser, PhD	University of Alabama at Birmingham	SRB
Kevin Moses, PhD	Emory University	CDF
William W. Moses, PhD	Institute of Electrical and Electronic Engineers	SRB
Curtis L. Mosher, PhD	Bioforce Nanosciences, Inc	IDM
Deane F. Mosher, MD	University of Wisconsin Medical School	BCS
John Mosher, PhD	University of California Los Alamos National Laboratory	SRB
Dimitrios Moskofidis, MD	Medical College of Georgia	IDM
Judith T. Moskowitz, PhD	University of California, San Francisco	AARR
Arthur J. Moss, MD	University of Rochester	HOP
Richard L. Moss, MD, PhD	University of Wisconsin, Madison	BPC
David M. Mosser, PhD	Keystone Symposia	BPC, IDM
Frank Mott, PhD	Ohio State University	HOP
Joann M. Moulds, PhD	Drexel University	CDF
John Moulton, PhD	University of Maryland Biotechnology Institute	BPC, MDCN
Stephen M. Mount, PhD	University of Maryland, College Park	GNS
David C. Mountain, PhD	Boston University, Charles River Campus	IFCN
Jeffrey R. Mounts, PhD	State University of New York at Geneseo	BBBP
Maral Mouradian, MD	National Institute of Neurological Disorders and Stroke	MDCN
Judith R. Mourant, PhD	University of California Los Alamos National Laboratory	BPC, CDF
Francis Moussy, PhD	University of South Florida	BPC
Peter R. Mouton, PhD	Stereology Resource Center, Inc	MDCN

Karen A. Moxon, PhD	Drexel University	MSD
Peter Moy, PhD	National Institutes of Health	BPC
Jan A. Moynihan, PhD	University of Rochester	BBBP
Milan Mrksich, PhD	University of Chicago	BPC
Daniel K. Mroczek, PhD	Fordham University	RPHB
Hong-Hua Mu, MD, PhD	University of Utah	IDM
Steven W. Muchmore	Abbott Laboratories	BCS
David C. Muddiman, PhD	Mayo Clinic, Rochester	BPC, GNS
Keith J. Mueller, PhD	University of Nebraska Medical Center	HOP
Peter Mueller, PhD	University of Texas M.D. Anderson Cancer Center	BPC, GNS
Ralph-Axel Mueller, PhD	San Diego State University	BDCN
Elliott J. Mufson, PhD	Rush-Presbyterian-St. Luke's Medical Center	AARR, BBBP, MSD
John P. Mugler, PhD	University of Virginia, Charlottesville	SRB
David F. Muir, PhD	University of Florida	MDCN
Jogeshwar Mukherjee, PhD	Brain Image Center	SRB
Bijay Mukherji, MD	University of Connecticut Health Center	ONC
James J. Mule, PhD	University of Michigan Medical Center	ONC
Robert V. Mulkern, PhD	Brigham and Women's Hospital	RPHB
Kathleen Mulligan, PhD	University of California	AARR
Sara J. Mulroy, PhD	Los Amigos Research and Education Institute	MSD
Nancy A. Muma, PhD	Loyola University, Chicago	BDCN
Russell J. Mumper, PhD	University of Kentucky	BBBP, BDCN, BPC, SRB
Eckard Munck, PhD	Carnegie Mellon University	BPC
Ulrike G. Munderloh, DVM, PhD	University of Minnesota, Twin Cities	IDM
Ken Muneoka, PhD	Tulane University	CDF
Dan M. Mungas, PhD	University of California, Davis	BBBP
Karl Munger, PhD	Harvard University Medical School	IDM
Stephen H. Munroe, PhD	Marquette University	CDF
Nikhil C. Munshi, MD, PhD	University of Arkansas at Little Rock	ONC
Carles Muntaner, MD, PhD	University of Maryland, Baltimore	HOP
Mark B. Muraven, PhD	State University of New York at Albany	RPHB
Brian Murfin, PhD	Brookhaven National Laboratory	BBBP
John P. Murnane, PhD	University of California, San Francisco	ONC
Rodney K. Murphey, PhD	University of Massachusetts	MDCN
Anne N. Murphy, PhD	Mitokor	MDCN
Anne Z. Murphy, MD, PhD	Georgia State University	IFCN
Catherine J. Murphy, PhD	University of South Carolina	GNS
Christopher J. Murphy, DVM, PhD	University of Wisconsin, Madison	MDCN
Debra A. Murphy, PhD	University of California, Los Angeles	AARR
Douglas B. Murphy, PhD	Johns Hopkins University	CDF
Edward L. Murphy, MD	University of California, San Francisco	AARR
Greer M. Murphy, MD, PhD	Stanford University	BDCN
Gregory L. Murphy, PhD	New York University	BBBP
John E. Murphy, PhD	Bayer Biotechnology	ONC
John R. Murphy, PhD	Boston Medical Center	IDM
Joseph Murphy, PhD	Institute For Cancer Research	SRB
Laura L. Murphy, PhD	Southern Illinois University	ENR
Liam Murphy, MD	University of Manitoba	NMS
Michael C. Murphy, PhD	Louisiana State University	PPS, MSD
Patricia J. Murphy, PhD	Weill Medical College of Cornell University	BBBP
Patrick J. Murphy,	University of Michigan at Ann Arbor	RPHB
Richard A. Murphy, PhD	University of Virginia	MSD
Robert F. Murphy, PhD	Carnegie Mellon University	BPC
Joseph Murphy-Boesch, PhD	Institute For Cancer Research	SRB
David M. Murray, MD, PhD	University of Memphis	HOP
James L. Murray, MD	University of Texas M.D. Anderson Cancer Center	ONC
John M. Murray, MD, PhD	University of Pennsylvania	CDF
Marion Murray, PhD	Drexel University	BDCN
Peter J. Murray, PhD	St. Jude Children's Research Hospital	AARR, IMM

Sandra Lee Murray, PhD	State University of New York at Buffalo	RPHB
Charles E. Murry, MD, PhD	University of Washington	CVS
George F. Muschler, MD	Cleveland Clinic Foundation	MSD
Spencer V. Muse, PhD	North Carolina State University	BPC
Linda S. Musil, PhD	Oregon Health and Science University	MDCN
Ferdinando Mussa-Ivaldi, PhD	Rehabilitation Institute Research Corporation	MDCN
Eric R. Muth, PhD	Clemson University	IFCN
Donald O. Mutti, DSc, OD	Ohio State University	BDCN
Elizabeth R. Myers, PhD	Hospital For Special Surgery	HOP
Jeffrey Myers, MD, PhD	University of Texas M.D. Anderson Cancer Center	MSD
Barbara M. Myklebust, PhD	Medical College of Wisconsin	MSD
Peter Myler, PhD	Seattle Biomedical Research Institute	IDM
David G. Myszka, PhD	University of Utah	IMM
Muna I. Naash, MD, PhD	University of Oklahoma Health Sciences Center	CDF
Nasrin Nabavi, PhD	National Institute of Allergy and Infectious Diseases	IMM
Irving Nachamkin, DRPH, PhD	University of Pennsylvania	IDM
Carol A. Nacy, PhD	Sequella, Inc	BPC
Michael A. Nader, PhD	Wake Forest University Health Sciences	IFCN
Jerry L. Nadler, MD	City of Hope/Beckman Research Institute	CVS
Janice R. Naegele, PhD	Wesleyan University	MDCN
Clayton W. Naeve, PhD	St. Jude Children's Research Hospital	ONC
Laurence A. Nafie, PhD	Syracuse University	BPC
Ram H. Nagaraj, PhD	Case Western Reserve University	BDCN
Ronald L. Nagel, MD	Albert Einstein College of Medicine, Yeshiva University	GNS
Juergen K. Naggert, PhD	Jackson Laboratory	GNS, NMS
Lillian M. Nail, JD, PhD	Oregon Health and Science University	GNS, HOP
Madhavan P. Nair, PhD	University of South Alabama	AARR
Vasu Nair, DSc, PhD	University of Georgia	BPC
Rodney S. Nairn, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Hiroshi Nakai, PhD	Georgetown University Medical Center	IDM
Robert K. Nakamoto, PhD	University of Virginia	BPC
Ken D. Nakamura, PhD	National Human Genome Research Institute	GNS
Koji Nakanishi, PhD	Columbia University	CDF
Orhan Nalcioğlu, PhD	University of California, Irvine	CDF, SRB
George H. Nancollas, DSc, PhD	State University of New York at Buffalo	MSD
Lillian B. Nanney, PhD	Cumberland Pharmaceuticals, Inc	SRB
Francis E. Nano, PhD	University of Victoria	BPC, IDM
Honami Naora, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Sandy A. Napel, PhD	Stanford University School of Medicine	SRB
Peter L. Nara, DVM, PhD	Biological Mimetics, Inc	AARR
Balaji Narasimhan, PhD	Iowa State University	BCS
Ponnada A. Narayana, PhD	University of Texas Health Science Center, Houston	BDCN
Peter M. Narins, PhD	University of California, Los Angeles	IFCN
Marc S. Nasoff, PhD	Pentameric Pharmaceuticals, Inc	BCS
Michael J. Natan, PhD	Nanoplex Technologies, Inc	BPC
Ananth Natarajan, MD, PhD	Infinite Biomedical Technologies, LLC	BDCN
Rama D. Natarajan, PhD	City of Hope/Beckman Research Institute	MSD
James P. Nataro, MD, PhD	University of Maryland Baltimore Professional School	IDM
Karl A. Nath, MD	Mayo Clinic, Rochester	CVS
Ravinder Nath, PhD	Yale University	ONC
Jeremy H. Nathans, MD, PhD	Johns Hopkins University	MDCN
Michael H. Nathanson, MD, PhD	Yale University School of Medicine	CDF
Bradford A. Navia, MD, PhD	New England Medical Center Hospitals	AARR
Deborah A. Nawoczinski, PhD	Ithaca College	MSD
Scott A. Nawy, DDS, PhD	Yeshiva University	CDF
Rajesh K. Naz, PhD	Medical College of Ohio at Toledo	ENR
Jonathan Neal, PhD	Purdue University	IDM
Peter J. Neame, PhD	Shriners Hospital For Children	MSD
Dobrin Nedelkov, PhD	Intrinsic Bioprobes, Inc	BCS
Maiken Nedergaard, MD	New York Medical College	MDCN

John G. Nedrud, PhD	Case Western Reserve University	AARR, IDM
Victor Nedzelnitsky,	National Institute of Standards and Technology	IFCN
Melody N. Neely, PhD	Wayne State University	IDM
Stephen T. Neely, DSc, PhD	Boys Town National Research Hospital	IFCN
Jenae M. Neiderhiser, PhD	George Washington University	HOP
Jeffrey J. Neil, MD, PhD	St. Louis Children's Hospital	SRB
Janet L. Neisewander, PhD	Arizona State University	BBBBP, IFCN
Maureen E. Neitz, PhD	Medical College of Wisconsin	BCS
Barry D. Nelkin, PhD	Johns Hopkins University School of Medicine	ONC
Charles A. Nelson, PhD	University of Minnesota	BDCN
Dorothy A. Nelson, PhD	Wayne State University	PPS
J. Stuart Nelson, MD, PhD	University of California, Irvine	SRB
Jay A. Nelson, PhD	Virogenomics, Inc	IDM
Mark A. Nelson, PhD	Arizona Cancer Center	ONC
Mark T. Nelson, PhD	Federation of American Societies For Experimental Biology	CVS
Peter S. Nelson, MD	Fred Hutchinson Cancer Research Center	MSD
Randy J. Nelson, PhD	Ohio State University	BBBBP, IFCN
Sarah J. Nelson, PhD	University of California, San Francisco	BDCN
Scott G. Nelson, PhD	University of Pittsburgh	BPC
Stanley F. Nelson, MD, PhD	University of California, Los Angeles	ONC
Todd Nelson, PhD	California State University, Stanislaus	RPHB
Susanna Nemes, PhD	Danya International, Inc	BBBBP
Tooru Nemoto, PhD	University of California, San Francisco	BBBBP, RPHB
Roberta B. Ness, MD	University of Pittsburgh	AARR, HOP
Scott A. Ness, PhD	University of New Mexico Health Sciences Center	CVS, ONC
Timothy J. Ness, MD, PhD	University of Alabama at Birmingham	BDCN, IFCN, MSD
Craig Nessler, PhD	Virginia Tech	BCS
Eric J. Nestler, MD, PhD	University of Texas Southwestern Medical Center at Dallas	MDCN
Josef Neu, MD	University of Florida	ENR
Judith A. Neubauer, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	IFCN, PPS
Timothy J. Neuberger, PhD	Acorda Therapeutics, Inc	BDCN
Elizabeth F. Neufeld, PhD	University of California, Los Angeles	HOP
P. Darrell Neuffer, PhD	John B. Pierce Laboratory, Inc	PPS
John M. Neuhaus, PhD	University of California	HOP
Arlene Neuman, PhD	City University of New York	IFCN
Michael R. Neuman, MD, PhD	Case Western Reserve University	NMS, SRB
Marian R. Neutra, PhD	Children's Hospital, Boston	IMM
Edward A. Neuwelt, MD	Oregon Health and Science University	CVS, MSD
Kim A. Neve, PhD	Portland Veterans Affairs Research Foundation, Inc	IFCN, MDCN
Martin E. Newcomb, PhD	University of Illinois at Chicago	BPC
Marcia E. Newcomer, PhD	Louisiana State University A&M College, Baton Rouge	BCS, BPC
Jonathan C. Newell, PhD	Rensselaer Polytechnic Institute	SRB
Paul A. Newhouse, MD	University of Vermont	BDCN
M. Christopher Newland, PhD	Auburn University	BBBBP
Mark J. Newman, MD, PhD	Duke University	AARR
Donald D. Newmeyer, PhD	La Jolla Institute For Allergy and Immunology	CDF
Alexandra C. Newton, PhD	University of California, San Diego	CDF, NMS
Michael A. Newton, PhD	University of Wisconsin, Madison	GNS, HOP
Alex A. Neyfakh, PhD	University of Illinois	IDM
Thomas C. Neylan, MD	Northern California Institute For Research and Education	BBBBP
John B. Nezlek, PhD	College of William and Mary	RPHB
Davis T. Ng, PhD	Pennsylvania State University, University Park	CDF
Lawrence K. Ng, PhD	University of Colorado	BDCN, BPC
John J. Ngai, PhD	University of California	CDF
Kenneth J. Nichols, PhD	Columbia University Health Science Center	SRB
Brian J. Nickoloff, MD, PhD	Loyola University Medical Center	MSD
Jac A. Nickoloff, DRPH, MD	University of New Mexico, Albuquerque	ONC
Grant D. Nicol, MD, PhD	Indiana University-Purdue University, Indianapolis	IFCN
Janet L. Nicol	University of Arizona	BBBBP
Mark A. Nicosia, PhD	University of Minnesota	CDF

Shuming Nie, PhD	Emory University	BPC, GNS, ONC, SRB
James T. Niemann, MD	Harbor-UCLA Research and Education Institute	CVS
Claudio R. Nigg, PhD	University of Hawaii at Manoa	HOP
Kathryn R. Nightingale, PhD	Duke University	SRB
Laura E. Niklason, MD, PhD	Duke University	MSD
Matthew L. Nilles, PhD	University of North Dakota	AARR
Eduardo A. Nillni, PhD	Rhode Island Hospital (Providence, RI)	MDCN, NMS
Vishwajit L. Nimgaonkar, MD, PhD	University of Pittsburgh	GNS
Ruola Ning, PhD	University of Rochester	SRB
Dwight G. Nishimura, PhD	Stanford University	SRB
Michael I. Nishimura, PhD	University of Chicago	IMM
Patsy M. Nishina, PhD	Jackson Laboratory	CDF
Akiko Nishiyama, DVM, MD	University of Connecticut	BDCN
Itzhak Nissim, PhD	Children's Hospital of Philadelphia	MSD
John L. Nitiss, PhD	St. Jude Children's Research Hospital	ONC
Jack B. Nitschke, PhD	University of Wisconsin, Madison	BBBP
Douglas F. Nixon, MD, PhD	J. David Gladstone Institutes	AARR
Patricia A. Nixon, PhD	Wake Forest University	HOP, RPHB
William Noble, PhD	University of Washington	GNS
Thomas H. Nochajski, PhD	State University of New York at Buffalo	RPHB
Steffen Nock, PhD	Panorama Research, Inc	MDCN
Drew M. Noden, PhD	Cornell University, Ithaca	CDF
Randolph J. Noelle, PhD	Dartmouth College	IMM
Samuel Noh, PhD	University of Akron	HOP
Garry P. Nolan, PhD	Stanford University	AARR
John P. Nolan, PhD	University of California Los Alamos National Laboratory	BPC
Douglas C. Noll, PhD	University of Michigan at Ann Arbor	BDCN, MDCN, SRB
Masayasu Nomura, PhD	University of California, Irvine	CDF
Michael L. Nonet, PhD	Washington University	MDCN
Mohamed A. F. Noor, PhD	Louisiana State University A&M College, Baton Rouge	IFCN
Abraham Noordergraaf, PhD	University of Pennsylvania	CVS
Steven K. Nordeen, PhD	University of Colorado Health Sciences Center	ENR
Ralph E. Norgren, PhD	Pennsylvania State University Hershey Medical Center	IFCN
Richard A. Normann, PhD	University of Utah	IMM, MDCN
Kathleen F. Norr, PhD	University of Illinois at Chicago	CDF
David A. Norris, MD	University of Colorado Health Sciences Center	MSD
James S. Norris, MD, PhD	Medical University of South Carolina	ONC
Pamela M. Norris, PhD	University of Virginia	GNS
Steven J. Norris, PhD	University of Texas Health Science Center, Houston	IDM
Hope Northrup, MD	University of Texas Health Science Center, Houston	GNS
Vicente Notario, PhD	Georgetown University Medical Center	ONC
Donald A. Novak, MD	University of Florida College of Medicine	ENR
Melinda A. Novak, PhD	University of Massachusetts	BBBP
Richard P. Novick, MD	New York University School of Medicine	IDM
Edward J. Novotny, MD	Yale University School of Medicine	BDCN
Mark W. Nowak, PhD	Neurion Pharmaceuticals, Inc	MDCN
Norma J. Nowak, PhD	Roswell Park Cancer Institute	MSD
Thaddeus S. Nowak, MD, PhD	University of Tennessee Health Science Center	BDCN
Volker Nowotny, PhD	University of Michigan	GNS
James M. Ntambi, PhD	University of Wisconsin, Madison	BCS
Vasilis Ntziachristos, MD, PhD	Massachusetts General Hospital	CDF
Randolph J. Nudo, PhD	University of Kansas Medical Center	BDCN
Matthew A. Nugent, PhD	Boston University School of Medicine	BCS
David P. Nunes, MB, MD	Boston Medical Center	AARR
Antonio A. Nunez, PhD	Michigan State University	IFCN
Gabriel Nunez, MD	University of Michigan at Ann Arbor	ONC
Jodi M. Nunnari, PhD	University of California, Davis	BCS
John I. Nurnberger, MD, PhD	Indiana University-Purdue University, Indianapolis	BDCN
Robert L. Nussbaum, MD	National Institutes of Health	HOP
Michel C. Nussenzweig, MD, PhD	Keystone Symposia	IMM

Stewart D. Nuttall, PhD	Csiro Health Sciences and Nutrition	IMM
Sergey V. Nuzhdin, PhD	University of California, Davis	GNS
Jennifer K. Nyborg, PhD	Colorado State University	ONC
John A. Nyman, PhD	University of Minnesota	RPHB
Barry Oakes, PhD	Monash University	MSD
David Oakes, PhD	University of Rochester	HOP
J. Michael Oakes, PhD	University of Minnesota, Twin Cities	HOP
M. Kerry O'Banion, MD, PhD	University of Rochester	BDCN
Lina M. Obeid, MD	Medical University of South Carolina	CVS
Carole Ober, PhD	University of Chicago	GNS
John D. Oberdick, PhD	Ohio State University	MDCN
Lorraine K. Obler, PhD	City University of New York	BBBP
Catherine A. O'Brian, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Charles A. O'Brien, PhD	University of Arkansas For Medical Sciences	PPS
Kevin F. O'Brien, PhD	East Carolina University	ONC
William A. O'Brien, MD, PhD	University of Texas Medical Branch	AARR
William E. O'Brien, PhD	Baylor College of Medicine	BCS
Tom G. O brig, PhD	University of Virginia	IDM
Patricia J. O'Campo, PhD	Johns Hopkins University	AARR
Howard Ochman, PhD	University of Arizona	IDM
Augusto C. Ochoa, MD	Louisiana State University Health Sciences Center, New Orleans	ONC
Bonnie B. O'Connor, PhD	Brown University	HOP
Patrick J. O'Connor, MD, PhD	Health Partners Research Foundation	NMS
Timothy R. O'Connor, PhD	City of Hope National Medical Center	ONC
Brian F. O'Donnell, PhD	Indiana University	BDCN
Lydia N. O'Donnell, DSc	Education Development Center, Inc	AARR
Matthew O'Donnell, PhD	University of Michigan	SRB
Patricio O'Donnell, MD, PhD	Albany Medical College of Union University	IFCN, MDCN
William Thomas O'Donohue, PhD	University of Nevada	BBBP
Michael J. O'Donovan, PhD	National Institute of Neurological Disorders and Stroke	MDCN
Gerry O'Dow	Urocor	ONC
Diane K. O'Dowd, PhD	University of California, Irvine	MDCN
Amy Odum, PhD	University of New Hampshire	BBBP
Peter J. Oefner, MD, PhD	Stanford University	GNS
Theodore R. Oegema, PhD	Rush-Presbyterian-St. Luke's Medical Center	BCS
Joerg P. Oettingen, MD	Beth Israel Deaconess Medical Center	CVS
Eugene R. Oetting, PhD	Colorado State University	HOP
Sonoko Ogawa, PhD	The Rockefeller University	IFCN
Godwin O. Ogedegbe, MD	Columbia University Health Science Center	RPHB
Roy C. Ogle, PhD	University of Virginia School of Medicine	MSD
Maurice R. O'Gorman, PhD	Children's Memorial Hospital, Chicago	HEME
Thomas V. O'Halloran, PhD	Northwestern University	BPC
Douglas H. Ohlendorf, PhD	University of Minnesota, Twin Cities	BPC
William J. Ohley, PhD	Life Recovery Systems, Inc	SRB
Betsy M. Ohlsson-Wilhelm, PhD	Zynaxis, Inc	CDF, CVS, HEME
Roberta K. Oka, DNSc,	University of California, Los Angeles	RPHB
Yoshio Okada, PhD	University of New Mexico	BDCN, IFCN
Curtis T. Okamoto, PhD	University of Southern California	MSD
Melvin Y. Okamura, PhD	University of California, San Diego	BPC
Murat Okandan, PhD	Sandia National Laboratories	BPC
Pablo C. Okhuysen, MD	University of Texas Health Science Center, Houston	AARR
William C. Okulicz, PhD	University of Massachusetts Medical School, Worcester	ENR
Mark D. Okusa, MD	University of Virginia Health System	MSD
Kolawole S. Okuyemi, MD	University of Kansas Medical Center	RPHB
William Olbricht, PhD	Cornell University, Ithaca	SRB
William Old, PhD	University of Colorado Health Sciences Center	MDCN
David W. Oldach, MD	University of Maryland	PPS
Kevin W. Olden, MD	Mayo Clinic, Scottsdale	RPHB
Philip B. Oldham, PhD	Mississippi State University	IDM
Daniel S. O'Leary, PhD	University of Iowa	BDCN

Dennis D. O'Leary, PhD	Salk Institute For Biological Studies	IFCN
Dennis P. O'Leary, PhD	University of Southern California	IFCN
Jerzy Olejnik, PhD	Ambergen, Inc	CDF
Brian Oliver, PhD	National Institutes of Health	GNS
Douglas L. Oliver, PhD	University of Connecticut School of Medicine and Dentistry	IFCN
Guillermo C. Oliver, PhD	St. Jude Children's Research Hospital	CDF
John C. Olsen, PhD	University of North Carolina, Chapel Hill	BCS
Andrew F. Olshan, PhD	University of North Carolina, Chapel Hill	HOP
Brian Olshansky, MD	University of Iowa	SRB
Ann L. Olson, PhD	University of Oklahoma Health Sciences Center	NMS
Elizabeth S. Olson, PhD	Columbia University Health Science Center	IFCN
Gary E. Olson, PhD	Vanderbilt University	ENR
James E. Olson, PhD	Wright State University	BDCN
Jane M. Olson, PhD	Case Western Reserve University	GNS
Jeffrey J. Olson, MD	Emory University	MDCN
Lawrence K. Olson, PhD	Michigan State University	NMS
Sheryl L. Olson, PhD	University of Michigan	BBBP
Thomas F. Oltmanns, PhD	Washington University	BBBP
Ann S. Omalley, MD	Georgetown University Medical Center	RPHB
Patrick M. O'malley, PhD	University of Michigan	HOP
Bishr B. Omary, MD, PhD	Gordon Research Conferences	PPS
Allen M. Omoto, PhD	University of Kansas	RPHB
Colm Aongus O'Muircheartaigh, PhD	University of Chicago	RPHB
Andrew B. Onderdonk, PhD	Brigham and Women's Hospital	IDM
Patrick M. O'Neil, PhD	Medical University of South Carolina	RPHB
Paula N. O'Neill, Edd, PhD	University of Texas at Houston	AARR, CDF, HOP, RPHB
William C. O'Neill, MD	Emory University	CVS
Joo L. Ong, PhD	University of Texas Health Science Center	MSD
Stephen M. Onifer, PhD	University of Louisville	MDCN
Santa J. Ono, PhD	Schepens Eye Research Institute	IMM
Marcia R. Ontell, PhD	University of Pittsburgh	MSD
Wee Lock Ooi, DRPH, PhD	Hebrew Rehabilitation Center For Aged	HOP
Jonathan Ophir, PhD	University of Texas Health Science Center, Houston	SRB
Mark R. Opp, PhD	University of Michigan	IFCN
Joel Oppenheim, PhD	New York University School of Medicine	IDM
Ronald W. Oppenheim, PhD	Wake Forest University Health Sciences	BBBP
Stephen M. Oppenheimer, MB	Johns Hopkins University	HOP
Lynne A. Opperman, PhD	Texas A&M Baylor College of Dentistry	MSD
Jose M. Ordovas, PhD	Tufts University	HOP
Rimas J. Orentas, PhD	Medical College of Wisconsin	IMM
Ron C. Orlando, PhD	University of Georgia	BCS, BPC
Ian M. Orme, PhD	Colorado State University	IDM
Paul E. Orndorff, PhD	North Carolina State University	IDM
David M. Ornitz, MD, PhD	Washington University	BCS
Donald M. O'Rourke, MD	University of Pennsylvania	ONC
Harry T. Orr, PhD	University of Minnesota	BDCN, GNS, MDCN
Scott P. Orr, PhD	Massachusetts General Hospital	BBBP
William C. Orr, PhD	Southern Methodist University	MSD
Eric S. Orwoll, MD	Oregon Health and Science University	MSD
Barbara A. Osborne, PhD	University of Massachusetts	IMM
William R. Osborne, PhD	University of Washington	MSD
Philip A. Osdoby, PhD	Washington University	MSD
Allan R. Oseroff, MD, PhD	Roswell Park Cancer Institute	ONC
K. S. O'Shea, PhD	University of Michigan at Ann Arbor	CDF, MDCN
Neil Osheroff, PhD	Vanderbilt University School of Medicine	ONC
Mary Ann Osley, PhD	University of New Mexico Health Sciences Center	BCS
Stephen A. Osmani, PhD	Ohio State University	CDF
George J. Osol, PhD	University of Vermont and State Agricultural College	MSD
Harriet Oster, PhD	New York University	RPHB

Suzanne O. Ostrand-Rosenberg, PhD	University of Maryland, Baltimore County	IMM
Jamie S. Ostroff, PhD	Sloan-Kettering Institute For Cancer Research	RPHB
Michael C. Ostrowski, PhD	Ohio State University	BPC
Robert Osuna, PhD	State University of New York at Albany	IDM
Linda L. Otis, DDS, PhD	University of Pennsylvania	MSD
George A. O'Toole, PhD	Dartmouth College	IDM, IFCN
Joseph E. O'Tousa, PhD	University of Notre Dame	IFCN
Geoffrey E. Ott, MD, PhD	Medical Decision Logic, Inc	AARR
Jurg Ott, PhD	The Rockefeller University	GNS
Kenneth J. Ottenbacher, PhD	University of Texas Medical Branch at Galveston	MSD
Mary Ann Ottinger, PhD	University of Maryland, College Park	BBBP
Michael W. Otto, PhD	Massachusetts General Hospital	RPHB
Francis O. Otuonye, PhD	Michigan Technological University	HOP
Jing-Hsiung J. Ou, PhD	University of Southern California	IDM
Merry J. Oursler, PhD	University of Minnesota at Duluth	MSD
Julie M. Overbaugh, PhD	Fred Hutchinson Cancer Research Center	AARR
Paul A. Overbeek, PhD	Baylor College of Medicine	CDF
Trevor Owens, PhD	McGill University	IMM, MDCN
Cynthia Owsley, PhD	University of Alabama at Birmingham	BBBP, IFCN, RPHB
Alvydas J. Ozinskas, PhD	Moss Rehabilitation Research Institute	GNS
Norman R. Pace, PhD	University of Colorado	IDM
Joel S. Pachter, PhD	University of Connecticut Health Center	MDCN
Caesar Pacifici, PhD	Northwest Media, Inc	HOP
Maurizio Pacifici, PhD	University of Pennsylvania	MSD
Carol Padden, PhD	University of California, San Diego	BBBP
Richard W. Padgett, PhD	Rutgers University	CDF
Nancy S. Padian, PhD	University of California, San Francisco	AARR
Vasanth Padmanabhan, PhD	University of Michigan at Ann Arbor	ENR
Walter E. Pae, MD	Pennsylvania State University	SRB
Harald Paganetti, PhD	Massachusetts General Hospital	ONC
Gayle G. Page, DNSc, DSc	Johns Hopkins University	HOP
Terry L. Page, PhD	Vanderbilt University	IFCN
Dilip Y. Paithankar, PhD	Candela Corporation	SRB
K. Palaniappan, PhD	University of Missouri, Columbia	BPC
Emanuel A. Palatinsky, MD	Gliatech, Inc	BDCN
Krzysztof Palczewski, PhD	University of Washington	CDF
Peter M. Palese, PhD	Mount Sinai Hospital	IDM
Bruce A. Palfey, PhD	University of Michigan Medical School	IDM
Lawrence A. Palinkas, PhD	University of California, San Diego	HOP
David C. Pallas, PhD	Emory University School of Medicine	IDM
Arthur G. Palmer, PhD	Columbia University	BPC
Guy H. Palmer, DVM, PhD	Washington State University	IDM
Lawrence G. Palmer, PhD	Cornell University Medical College	MSD
Theo D. Palmer, MD, PhD	Stanford University	MDCN
Aarno Palotie, MD, PhD	University of California, Los Angeles	GNS
Jatinder R. Palta, PhD	University of Florida Health Science Center	ONC
Timothy G. Palzkill, PhD	Seqwright, LLC	BCS
Nisar A. Pampori, PhD	Meso Scale Diagnostics, LLC	PPS
Hui-Lin Pan, MD, PhD	Wake Forest University Health Sciences	BDCN
Jullie W. Pan, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	SRB
Xiaochuan Pan, PhD	University of Chicago	SRB
Yingtian Pan, PhD	State University of New York at Stony Brook	BDCN, SRB
Mohammad Panahandeh, PhD	Berkeley Applied Science and Engineering	MSD
Zeev Pancer, DSc	University of Alabama at Birmingham	IMM
Joseph J. Pancrazio, PhD	Naval Research Laboratory	CDF
Jayanti Pande, PhD	Massachusetts Institute of Technology	BDCN
Ghanshyam N. Pandey, PhD	University of Illinois	BDCN
Robert J. Pandina, PhD	Rutgers University	HOP
Stephen J. Pandol, MD	University of California, Los Angeles	PPS
Alyssa Panitch, PhD	Arizona State University	MSD

Noorjahan A. Panjwani, PhD	Tufts University, Boston	BDCN
Paul Pantano, PhD	University of Texas at Dallas	BPC
Enzo Paoletti, PhD	Vcore Technologies, Inc	AARR
Paul J. Paolini, PhD	Rees-Stealy Research Foundation	IMM
Nazareno Paolocci, MD, PhD	Johns Hopkins University	CVS, HEME
Xenophon Papademetris, PhD	Yale University	SRB
Mikhail I. Papisov, PhD	Nanopharma, Corporation	IDM
Miguel A. Pappolla, MD	University of South Alabama	BDCN
Victor L. Paquet, ScD	State University of New York at Buffalo	MSD
Michael A. Paradiso, PhD	Brown University	IFCN
Keykavous Parang, PhD	University of Rhode Island	AARR, BPC
M. Paranjape, PhD	Georgetown University	BCS
Jose V. Pardo, MD, PhD	University of Minnesota	BDCN
Jean-Marie Parel, PhD	University of Miami	BDCN, MDCN
Jack M. Parent, MD	University of Michigan Medical Center	BDCN
Peter R. Parham, PhD	Stanford University	IMM
David M. Parichy, PhD	University of Texas at Austin	CDF, GNS
Denise C. Park, PhD	University of Michigan at Ann Arbor	BBBBP, MSD
Kinam Park, PhD	Purdue University	CVS
Barbara J. Parker, PhD	University of Virginia, Charlottesville	HOP
Richard G. Parker, PhD	Columbia University Health Science Center	AARR, RPHB
Roy R. Parker, PhD	Federation of American Societies For Experimental Biology	CDF
Sherwood I. Parker, PhD	University of Hawaii at Manoa	SRB
William B. Parker, MD, PhD	Southern Research Institute	ONC
John W. Parkins, PhD	Red Tail Hawk Corporation	IFCN
John S. Parkinson, PhD	University of Utah	IDM
David R. Parks, PhD	Stanford University	HEME
Griffith D. Parks, PhD	Wake Forest University Health Sciences	IDM
Michael A. Parniak, PhD	University of Pittsburgh	AARR
Ramin V. Parsey, MD, PhD	New York State Psychiatric Institute	BBBBP
Lawrence M. Parsons, PhD	University of Texas Health Science Center at San Antonio	IFCN
Loren H. Parsons, PhD	Scripps Research Institute	BPC, IFCN
Marilyn Parsons, PhD	Seattle Biomedical Research Institute	CDF, IDM
Rodney L. Parsons, PhD	University of Vermont	MDCN
Sampath Parthasarathy, PhD	Emory University	CVS
Kathryn M. Partin, PhD	Colorado State University	MDCN
David W. Pascual, MD, PhD	Montana State University, Bozeman	BDCN
Alvaro Pascual-Leone, MD, PhD	Beth Israel Deaconess Medical Center	BBBBP, BDCN
Harold E. Pashler, PhD	University of California, San Diego	BBBBP
Ares D. Pasipoularides, MD, PhD	Duke University	SRB
Robert F. Pass, MD	University of Alabama at Birmingham	AARR
Gary R. Pasternack, MD, PhD	Johns Hopkins University	ONC
Edward F. Pate, PhD	Washington State University	MSD
Dinshaw J. Patel, PhD	Sloan-Kettering Institute For Cancer Research	AARR
J. M. Patel, PhD	University of Florida Health Science Center	PPS
Jignesh Patel, PhD	University of Michigan at Ann Arbor	BPC
Pragna I. Patel, PhD	Baylor College of Medicine	MSD
Robin Patel, MD	Mayo Clinic, Rochester	IDM
Shailendra B. Patel, MD	Medical University of South Carolina	ENR
Shutish C. Patel, MD, PhD	New England Biomedical Research Center	BDCN, HOP
Andrew D. Paterson, MD	Hospital For Sick Children	GNS
Yvonne Paterson, PhD	University of Pennsylvania	IMM
Dorothy R. Pathak, PhD	Michigan State University	HOP
Carlos N. Pato, MD	State University of New York at Stony Brook	GNS
Gabor Patonay, PhD	Georgia State University	IDM
Charles W. Patrick, PhD	University of Texas M.D. Anderson Cancer Center	MDCN, MSD
Donald L. Patrick, PhD	University of Washington School of Public Health	HOP
Kevin M. Patrick, MD	University of California, San Diego	HOP
Bradley E. Patt, PhD	Photon Imaging, Inc	SRB
Yehuda Z. Patt, MD	University of Maryland	ONC

Christi A. Patten, PhD	Mayo Clinic, Rochester	BBBBP
Garth I. Patterson, PhD	Rutgers University	CDF
Rita M. Patterson, PhD	University of Texas Medical Branch at Galveston	BDCN
Thomas L. Patterson, PhD	University of California, San Diego	AARR, BBBP
Asit K. Pattnaik, PhD	University of Nebraska, Lincoln	IDM
James L. Patton, PhD	Rehabilitation Institute Research Corporation	MSD
John S. Patton, PhD	Keystone Symposia	BPC
Wayne F. Patton, PhD	Molecular Probes, Inc	BCS, MDCN
Jana Patton-Vogt, PhD	Duquesne University	BCS
Marvin R. Paule, PhD	Colorado State University	CDF
Donna M. Paulnock, PhD	University of Wisconsin Medical School	IMM
David L. Pauls, PhD	Massachusetts General Hospital	HOP
Jane S. Paulsen, MD, PhD	University of Iowa	BBBBP
Keith D. Paulsen, PhD	Dartmouth College	ONC, SRB
Henry L. Paulson, MD, PhD	University of Iowa	BDCN
James C. Paulson, PhD	Scripps Research Institute	BPC, IMM
James Pauly, PhD	University of Kentucky	BDCN
C. David Pauza, PhD	University of Maryland Biotechnology Institute	AARR
Gregory J. Paveza, PhD	University of South Florida	RPHB
Grace K. Pavlath, PhD	Emory University	MSD
Constantine Pavlides, PhD	The Rockefeller University	BDCN, IFCN
Chaslav Pavlovic, PhD	Resound Corporation	IFCN
Christina H. Paxson, PhD	Princeton University	RPHB
Christopher K. Payne, MD	Stanford University	MSD
John A. Payne, PhD	University of California, Davis	MDCN
Shelley M. Payne, PhD	University of Texas	IDM
Susan L. Payne, PhD	Texas A&M University	AARR, IDM
David S. Peabody, PhD	University of New Mexico School of Medicine	BPC
David Pearce, MD	University of California, San Francisco	MSD
David A. Pearce, PhD	University of Rochester	HOP, BDCN
Edward J. Pearce, PhD	University of Pennsylvania	IMM
William J. Pearce, MD, PhD	Loma Linda University	BDCN
Leonard I. Pearlman, PhD	University of Maryland	RPHB
Godfrey D. Pearlson, MD	Hartford Hospital	SRB
Arne J. Pearlstein	University of Illinois at Urbana-Champaign	BPC, IDM
David B. Pearce, MD	Johns Hopkins University School of Medicine	SRB
William R. Pearson, PhD	University of Virginia School of Medicine	GNS
Bruno Peault, PhD	University of Pittsburgh School of Medicine	CDF
Carlos H. Pedemonte, PhD	University of Houston	BCS
David B. Peden, MD	University of North Carolina	PPS
Henrik Pedersen, MD, PhD	Rutgers University	ONC, SRB
Donna M. Peehl, PhD	Stanford University	MSD
Richard M. Peek, MD	Vanderbilt University	IDM
Eliezer Peli, OD	Schepens Eye Research Institute	BDCN
Jerry Pelletier, PhD	McGill University	GNS
Dale A. Pelligrino, PhD	University of Illinois at Chicago	SRB
Edo D. Pellizzari, PhD	Research Triangle Institute	BPC
Pawel A. Penczek, PhD	University of Texas	CDF
Hsiao-Ming B. Peng, PhD	Hong Kong University of Science and Technology	MDCN
Xiaogang Peng, PhD	University of Arkansas	BPC
Yongren B. Peng, PhD	Xi Sci-Tech, Inc	ONC
Zheng-Yu Peng, PhD	University of Connecticut Health Center	BPC
Alan I. Penn, PhD	Alan Penn and Associates, Inc	SRB
John S. Penn, PhD	Vanderbilt University	CDF
Len A. Pennacchio, PhD	Lawrence Berkeley National Laboratory	GNS
James W. Pennebaker, PhD	University of Texas at Austin	AARR
Trevor M. Penning, PhD	University of Pennsylvania	ONC
Charles D. Pennington, PhD	Luna Innovations, Inc	BPC
William R. Penrose, PhD	Illinois Institute of Technology	BPC
David F. Penson, MD	Fred Hutchinson Cancer Research Center	HOP

Debra J. Pepler, PhD	York University	RPHB
Ginette A. Pepper, PhD	University of Colorado Health Sciences Center	HOP
Walter W. Pepler, PhD	University of Wisconsin Hospital	SRB
Gary H. Perdew, PhD	Pennsylvania State University, University Park	ENR
Marta Perego, PhD	Scripps Research Institute	IDM
Lenore Pereira, PhD	University of California, San Francisco	IDM
Lev T. Perelman, PhD	Beth Israel Deaconess Medical Center	MDCN
Miguel A. Perez-Pinzon, PhD	University of Miami	BDCN
Regino J. Perez-Polo, PhD	University of Texas Medical Branch	BDCN
Roman Perez-Soler, MD	Tigen Pharmaceuticals	ONC
Charles A. Perfetti, PhD	University of Pittsburgh	BBBP
Robert G. Pergolizzi, PhD	Weill Medical College of Cornell University	BCS
Ammasi Periasamy, PhD	University of Virginia	CDF
Kenneth A. Perkins, PhD	Society For Research On Nicotine and Tobacco	BBBP
Lizabeth A. Perkins, PhD	Massachusetts General Hospital	GNS
Linda C. Perkowski, PhD	University of Texas Medical School at Houston	HOP
Andras Perl, MD, PhD	State University of New York	MSD
Daniel P. Perl, MD	Mount Sinai School of Medicine	BDCN
Adrienne L. Perlman, PhD	University of Illinois at Urbana-Champaign	BBBP
Philip S. Perlman, PhD	University of Texas	BCS
Stanley Perlman, MD, PhD	University of Iowa	IDM
Eduardo A. Perozo, PhD	University of Virginia School of Medicine	MSD
Jacques Perrault, PhD	San Diego State University	GNS
Norbert Perrimon, PhD	Harvard University Medical School	MDCN
Ellen C. Perrin, MD	New England Medical Center Hospitals	RPHB
Nora I. Perrone-Bizzozero, PhD	University of New Mexico, Albuquerque	IFCN
David C. Perry, PhD	George Washington University	BDCN, RPHB
David G. Perry, PhD	Florida Atlantic University	RPHB
George Perry, PhD	Case Western Reserve University	BDCN
Robert D. Perry, PhD	University of Kentucky	IDM
Lynn K. Pershing, PhD	University of Utah School of Medicine	MSD
David H. Persing, MD, PhD	Infectious Disease Research Institute	IDM
James J. Pestka, PhD	Michigan State University	ENR
Donna M. Peters	University of Wisconsin, Madison	BDCN
Kenneth M. Peters, MD	William Beaumont Hospital	MSD
Stephen P. Peters, MD, PhD	Wake Forest University Health Sciences	IMM
Bryon E. Petersen, PhD	University of Florida	MSD, ONC
Jeannine M. Petersen, PhD	University of Wisconsin, Madison	IDM
Bret Peterson, PhD	National Center For Research Resources	CDF
Charlotte A. Peterson, PhD	University of Arkansas For Medical Sciences	MSD
Daniel A. Peterson, PhD	Finch University of Health Sciences/Chicago Medical School	BDCN
Douglas E. Peterson, DDS, DMD	University of Connecticut Health Center	MSD
Jim Peterson, PhD	Carnegie Mellon University	BPC
Kenneth M. Peterson, PhD	Louisiana State University	IDM
Leif E. Peterson, PhD	Baylor College of Medicine	HOP
Phillip K. Peterson, MD	University of Minnesota, Twin Cities	AARR
Scott N. Peterson, PhD	Institute For Genomic Research	IDM
Diana B. Petitti, MD	Kaiser Foundation Research Institute	HOP
Eva Petkova, PhD	New York State Psychiatric Institute	BBBP
J. Mark Petrash, PhD	Washington University	BDCN, MDCN
William A. Petri, MD, PhD	University of Virginia	IDM
Howard T. Petrie, PhD	Sloan-Kettering Institute For Cancer Research	BPC, IMM
Stephen A. Pettrill, PhD	Pennsylvania State University	HOP
John H. Petrini, PhD	Sloan-Kettering Institute For Cancer Research	ONC
Christos J. Petropoulos, PhD	Virologic, Inc	AARR
John A. Petros, MD	Emory University School of Medicine	ENR
Nancy M. Petry, PhD	University of Connecticut Health Center	RPHB
Jay W. Pettegrew, MD, PhD	University of Pittsburgh Medical Center	BDCN
Gregory S. Pettit, PhD	Auburn University	RPHB
Elizabeth M. Petty, MD	University of Michigan at Ann Arbor	GNS

Larysa H. Pevny, PhD	University of North Carolina, Chapel Hill	MDCN
Donald W. Pfaff, PhD	Brain Arousal, Inc	CDF
Samuel L. Pfaff, PhD	Salk Institute For Biological Studies	MDCN
James G. Pfaus, PhD	Concordia University	IFCN
Steven E. Pfeiffer, PhD	University of Connecticut School of Medicine and Dentistry	MDCN
Ellen Pfendner, PhD	Thomas Jefferson University	GNS
Kevin K. Pfister, PhD	University of Virginia Health System	MDCN
John M. Pfothenhauer, PhD	University of Wisconsin, Madison	SRB
Robert D. Phair, PhD	Integrative Bioinformatics	BPC
Sem H. Phan, MD, PhD	University of Michigan Medical School	IMM
Elizabeth A. Phelps, PhD	New York University	RPHB
William M. Philbrick, MD, PhD	Yale University School of Medicine	MSD
Mario T. Philipp, PhD	Tulane University	BDCN
Louis H. Philipson, MD, PhD	University of Chicago	NMS
Allen T. Phillips, PhD	APD Life Sciences, Inc	CVS, HEME
Barbara A. Phillips, MD	University of Kentucky	HOP
Ceib L. Phillips, PhD	University of North Carolina, Chapel Hill	RPHB
Charlotte L. Phillips, PhD	University of Missouri	MSD
George Neal Phillips, PhD	University of Wisconsin, Madison	BCS, BPC
Kenneth D. Phillips, PhD	University of South Carolina	AARR
Linda Phillips, PhD	Virginia Commonwealth University	BDCN
Margaret L. Phillips, PhD	University of Oklahoma Health Sciences Center	HOP
Caroline C. Philpott, MD	National Institutes of Health	ENR
Liane E. Philpotts, MD	Yale University	SRB
Jean S. Phinney, PhD	California State University, Los Angeles	BBBP
Etienne J. Phipps, PhD	Albert Einstein Healthcare Network	GNS
Sean Phipps, PhD	St. Jude Children's Research Hospital	RPHB
Michael T. Piascik, PhD	University of Kentucky	CVS
Michael Piatak, PhD	National Cancer Institute	AARR, IDM
Cathleen C. Piazza, PhD	Kennedy Krieger Research Institute, Inc	BBBP
David Pickar, MD	Duke University Medical Center	BDCN
Gary E. Pickard, PhD	Colorado State University	IFCN
David R. Pickens, PhD	Vanderbilt University Medical Center	SRB
Thomas G. Pickering, DPH	Columbia University Health Science Center	RPHB
William D. Picking, PhD	University of Kansas	IDM
Pedro A. Piedra, MD, PhD	Baylor College of Medicine	AARR
David Pienkowski, PhD	University of Kentucky	MSD
J. Michael Pierce, PhD	National Cancer Institute	BCS
Vincent A. Pieribone, PhD	Physiological Technologies	MDCN
Jennifer A. Pietenpol, PhD	Vanderbilt University School of Medicine	ONC
John D. Piette, PhD	University of Michigan at Ann Arbor	RPHB
Stacy Leigh Pigg, PhD	Simon Fraser University	RPHB
Robert T. Pilarski	Ohio State University	GNS
Paul F. Pilch, PhD	Boston University Medical Center	MSD
Carol A. Pilgrim, PhD	University of North Carolina, Chapel Hill	BBBP
Seth H. Pincus, MD	Louisiana State University Health Sciences Center, New Orleans	AARR, IDM
Richard I. Pine, PhD	Public Health Research Institute	IMM
Peipei Ping, PhD	University of California, Los Angeles	CVS
Kent E. Pinkerton, PhD	University of California	ENR
Steven D. Pinkerton, PhD	Medical College of Wisconsin	AARR
David J. Pinsky, MD	University of Michigan at Ann Arbor	SRB
David J. Pintel, PhD	University of Missouri, Columbia	IDM
Abraham Pinter, PhD	Public Health Research Institute	AARR
Nancy A. Piotrowski, PhD	Public Health Institute	BBBP
James M. Piret, PhD, ScD	University of British Columbia	MSD
Lucia Pirisi-Creek, MD	University of South Carolina School of Medicine	GNS
Albert Pisano, PhD	University of California	BCS
Etta D. Pisano, MD	University of North Carolina, Chapel Hill	SRB
Michael V. Pishko, PhD	Pennsylvania State University, University Park	BPC, MSD
David W. Piston, PhD	Vanderbilt University	ONC, SRB

F. Xavier Pi-Sunyer, MD	St. Luke's-Roosevelt Institute For Health Sciences	ENR
Paula M. Pitha-Rowe, PhD	Johns Hopkins University	IMM
Bruce R. Pitt, PhD	University of Pittsburgh	PPS
Thane S. Pittman, PhD	Gettysburg College	RPHB
Gerald Pitts, PhD	Trinity University	BBBP
Jonathan Pitts, PhD	Lincoln Laboratories	SRB
David R. Piwnica-Worms, MD, PhD	Washington University School of Medicine	IDM
Robin A. Pixley, PhD	Temple University	IMM
Theresa T. Pizarro, PhD	University of Virginia Health System	PPS
Salvatore V. Pizzo, MD, PhD	Duke University Medical Center	AARR
Susan F. Plaeger, MD, PhD	National Institute of Allergy and Infectious Diseases	AARR
Rosemarie Plaetke, PhD	University of Texas Health Science Center at San Antonio	HOP
Stephen R. Planck, MD, PhD	Oregon Health and Science University	IMM
Vicente Planelles, PhD	University of Utah	BCS
Gregory V. Plano, PhD	University of Miami School of Medicine	IDM
Anne L. Plant	National Institute of Standards and Technology	BPC
Elena Plante, PhD	University of Arizona	BDCN
Leonidas C. Plataniias, MD, PhD	Northwestern University	ONC
Benjamin C. Platt, PhD	California Institute of Technology	BDCN
Jeffrey L. Platt, MD	Mayo Clinic, Rochester	SRB
Elizabeth A. Platz, DSc, PhD	Johns Hopkins University	HOP
David C. Plaut, PhD	Carnegie Mellon University	BBBP
Marshall Plaut, MD	National Institute of Allergy and Infectious Diseases	IMM
Gregory E. Plautz, MD	Cleveland Clinic Foundation	ONC
David E. Pleasure, MD	Children's Hospital of Philadelphia	HOP
Warren J. Pledger, PhD	H. Lee Moffitt Cancer Center and Research Institute	ONC
Octavia Plesh, DDS, MD	University of California, San Francisco	RPHB
Scott E. Plevy, MD	University of Pittsburgh	PPS
Robert Plomin, PhD	University of London Institute of Psychiatry	RPHB
Jordan S. Pober, MD, PhD	Yale University	CVS
Darrin J. Pochan, PhD	University of Delaware	MSD
Thomas C. Pochapsky, PhD	Brandeis University	BPC
Eckhard R. Podack, MD, PhD	University of Miami, Coral Gables	IMM
Carol A. Podlasek, PhD	Northwestern University	MSD
Theodore O. Poehler, PhD	Johns Hopkins University	HOP
Martin F. Poenie, PhD	University of Texas at Austin	MDCN
David Poeppel, PhD	University of Maryland	BBBP
Brian W. Pogue, PhD	Dartmouth College	CDF, SRB
Jan Pohl, PhD	Emory University	BPC
Gerald M. Pohost, MD, PhD	University of Southern California	CVS
Alphonse Poklis, PhD	Medical College of Virginia	PPS
Louis G. Pol, PhD	University of Nebraska Medical Center	HOP
Mary L. Polan, MD, PhD	Stanford University	MSD
Gregory A. Poland, MD	Mayo Clinic, Rochester	AARR
Russell E. Poland, PhD	Cedars-Sinai Medical Center	BDCN
Russell A. Poldrack, PhD	University of California, Los Angeles	BBBP
Barry A. Polisky, PhD	Indiana University, Bloomington	GNS
Janet Polivy, PhD	University of Toronto	RPHB
Thad A. Polk, PhD	University of Michigan at Ann Arbor	IFCN
Alan Pollack, MD, PhD	Fox Chase Cancer Center	ONC
Richard Pollack, PhD	Harvard University School of Public Health	IDM
Colin M. Pollard	Food and Drug Administration	AARR
Richard B. Pollard, MD	University of California, Davis	AARR
David D. Pollock, PhD	Louisiana State University	BCS, BPC
Rosemary C. Polomano, PhD	Pennsylvania State University Hershey Medical Center	IFCN
Alexander Poltorak, PhD	Tufts University, Boston	IMM
Stephen J. Polyak, PhD	University of Washington	IDM
Michael J. Polydefkis, MD	Johns Hopkins University	BDCN
Shirley A. Pomponi, PhD	Harbor Branch Oceanographic Institution	CDF
Liza A. Pon, PhD	Columbia University College of Physicians and Surgeons	CDF

Jay W. Ponder, PhD	Washington University	BPC
Katherine P. Ponder, MD	Barnes-Jewish Hospital	BCS
Selvarangan Ponnazhagan, PhD	University of Alabama	BCS
Michel A. Pontari, MD	Temple University	MSD
Melissa J. Pope, MD, PhD	Population Council	AARR
Richard M. Pope, MD	Northwestern University	HOP
William J. Popendorf, PhD	Utah State University	PPS
Steven N. Popoff, PhD	Temple University	MSD
Sergey V. Popov, PhD	University of Illinois at Chicago	CDF
Phillip G. Popovich, PhD	Ohio State University	BDCN
Amy L. Poremba, PhD	University of Iowa	IFCN
Frank F. Porreca, PhD	University of Arizona	IFCN
Linda J. Porrino,	Wake Forest University Health Sciences	IFCN
J. David Port, PhD	University of Colorado	CVS
John R. Porter, PhD	University of The Sciences In Philadelphia	CDF
Mary E. Porter, PhD	University of Minnesota	CDF
Peggy L. Porter, MD, PhD	Fred Hutchinson Cancer Research Center	BCS
Didier Portilla, MD	University of Arkansas For Medical Sciences	MSD
Michael Portman, MD	Children's Hospital and Regional Medical Center	SRB
Daniel A. Portnoy, PhD	University of California, Berkeley	IDM
Carol B. Post, PhD	Purdue University	BPC
J. Christopher Post, MD, PhD	Allegheny-Singer Research Institute	IFCN
Edith H. Postel, PhD	Princeton University	BCS
Edward M. Postlethwait, PhD	University of Alabama at Birmingham	PPS
Arnold E. Postlethwaite, MD	University of Tennessee, Memphis	MSD
David Pot, PhD	Informax, Inc	BPC
Barry J. Potter, PhD	Mount Sinai School of Medicine	SRB
Clinton S. Potter, PhD	Scripps Research Institute	CDF
David E. Potter, PhD	Medical University of South Carolina	BDCN
Huntington Potter, PhD	University of South Florida	MDCN
James D. Potter, PhD	University of Miami School of Medicine	MSD
Kimberlee Potter, PhD	American Registry of Pathology, Inc	MSD
Philip M. Potter, PhD	St. Jude Children's Research Hospital	ONC
Steven M. Potter, MD, PhD	Children's Hospital Medical Center, Cincinnati	MDCN
Russell O. Potts, PhD	Cygnus, Inc	SRB
C. D. Poulter, PhD	University of Utah	BPC
John T. Povlishock, PhD	Virginia Commonwealth University	BDCN
Frank L. Powell, PhD	University of California, San Diego	PPS
Jeffrey R. Powell, PhD	Yale University	GNS
Richard J. Powell, MD	Dartmouth College	CVS
Simon N. Powell, MD, PhD	Massachusetts General Hospital	ONC
Alvin C. Powers, MD	Vanderbilt University	NMS
Eric R. Powers, MD	University of Virginia Health System	SRB
Maureen A. Powers, PhD	Emory University School of Medicine	GNS
Scott K. Powers, EdD, PhD	University of Florida	MSD
Susan G. Powers-Lee, PhD	Northeastern University	BCS
Terry L. Powley, PhD	Purdue University	IFCN
Nanduri R. Prabhakar, DSc, PhD	Case Western Reserve University	PPS
Scott A. Prael, PhD	Providence St. Vincent Medical Center	SRB
Bidadi V. Prasad, PhD	Baylor College of Medicine	IDM
Kedar N. Prasad, PhD	University of Colorado School of Medicine	BDCN
Vinayaka R. Prasad, PhD	Albert Einstein College of Medicine, Yeshiva University	AARR, CDF
J. Howard Pratt, MD	Indiana University School of Medicine	CVS
Richard E. Pratt, PhD	Brigham and Women's Hospital	CVS
John S. Preisser, PhD	University of North Carolina, Chapel Hill	CVS
Gregory Prelich, PhD	Albert Einstein College of Medicine, Yeshiva University	IDM
Ross L. Prentice, PhD	Fred Hutchinson Cancer Research Center	HOP
Carol A. Prescott, PhD	Virginia Commonwealth University	HOP
Nancy A. Press, PhD	Oregon Health and Science University	GNS
Oliver W. Press, MD, PhD	University of Georgia	ONC

Glenn D. Prestwich, PhD	University of Utah	MSD
Russell L. Prewitt, PhD	Eastern Virginia Medical School	CVS
Theresa E. Prewitt, DRPH	Loyola University Medical Center	HOP
David H. Price, PhD	University of Iowa	AARR, CDF
Peter M. Price, PhD	University of Arkansas For Medical Sciences	MSD
Ronald R. Price, PhD	Vanderbilt University	SRB
Rumi K. Price, PhD	Washington University	BBBP
S. Russ Price, PhD	Emory University	MSD
Karen F. Pridham, PhD	University of Wisconsin, Madison	HOP
Waldemar Priebe, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Alfred M. Prince, MD	New York Blood Center	PPS
Jerry L. Prince, PhD	Johns Hopkins University	MDCN, SRB
Victoria E. Prince, PhD	University of Chicago	CDF
Gail S. Prins, PhD	University of Illinois at Chicago	ENR, MSD
Ronald J. Prinz, PhD	University of South Carolina	HOP
Peter L. Privalov, PhD	Johns Hopkins University	PPS
Carol L. Prives, PhD	Columbia University	ONC
Thomas R. Prohaska, PhD	University of Illinois at Chicago	RPHB
Robert S. Prosser, PhD	University of Toronto	BPC
Herbert K. Proudfit, PhD	University of Iowa	IFCN
Cynthia A. Prows	Children's Hospital Medical Center, Cincinnati	GNS
Rachel A. Pruchno, PhD	Boston College	RPHB
James R. Prudent, PhD	Eragen Biosciences, Inc	IDM
Stephen B. Pruett, PhD	Louisiana State University Health Sciences Center	PPS
Steven C. Pruitt, PhD	Roswell Park Cancer Institute	MDCN
Ron M. Prywes, PhD	Columbia University	CDF
Bruce M. Psaty, MD, PhD	University of Washington	HOP
Lin Pu, PhD	University of Virginia	BPC
Michael Pucci, PhD	Achillion Pharmaceuticals, Inc	IDM
J. David Puett, PhD	University of Georgia	ENR
Kenneth R. Pugh, PhD	Yale University	BBBP
Alberto Pugliese, MD	University of Miami School of Medicine	BPC
Joseph D. Puglisi, PhD	University of California, Santa Cruz	BPC
Bali Pulendran, PhD	Emory Vaccine Research Center	IMM
David A. Puleo, PhD	University of Kentucky	MSD
Laura Punnett, ScD	University of Massachusetts, Lowell	HOP
Jennifer A. Punt, PhD, VMD	Haverford College	IMM
Howard Eugene Purdum, PhD	Cryofacets, Inc	HEME
Ellen Pure', PhD	Wistar Institute	CVS
Keith P. Purpura, PhD	Weill Medical College of Cornell University	MDCN
David A. Putnam, PhD	Cornell University, Ithaca	BCS
Mary E. Putt, PhD	University of Pennsylvania	IMM
Chaim Putterman, MD	Yeshiva University	HOP
Yingyong Qi, PhD	Audigicomm, LLC	BBBP
Jun Qin, PhD	Baylor College of Medicine	ONC
Mengsheng Qiu, PhD	University of Louisville	BDCN
John Quackenbush, PhD	Institute For Genomic Research	GNS, MDCN
Kimberly A. Quaid, PhD	Indiana University	GNS
Ning Quan, PhD	Ohio State University	MSD
Vito Quaranta, MD	Vanderbilt University	ONC
Linda C. Quattrochi, PhD	University of Colorado Health Sciences Center	PPS
Sherry F. Queener, PhD	Indiana University-Purdue University, Indianapolis	AARR
Peter J. Quesenberry, MD	Roger Williams Hospital	MSD
Michael W. Quick, PhD	University of Southern California	MDCN
Edward J. Quigley, PhD	Shriners Hospital For Children	MSD
Harry A. Quigley, MD	Johns Hopkins University	MDCN
Conrad P. Quinn, PhD	Meningitis and Special Pathogens Branch, DBMD	IDM
Daniel M. Quinn, PhD	University of Iowa	BPC
Paul Quinn, PhD	Washington and Jefferson College	BBBP
Virginia P. Quinn, PhD	Kaiser Foundation Research Institute	RPHB

Gerald V. Quinnan, MD	Henry M. Jackson Foundation For The Advancement of Military Medicine	AARR
Teri Quinn-Gray, PhD	Du Pont Merck Pharmaceutical Company	BPC
Susan Quirk, PhD	Cornell University	NMS
Alexandra L. Quittner, PhD	University of Florida	BBBP
Daniel Rabinowitz, PhD	Columbia University	HOP
Judith G. Rabkin, PhD	New York State Psychiatric Institute	HOP
Samuel D. Rabkin, PhD	Massachusetts General Hospital	BDCN
Arnold B. Rabson, MD, PhD	University of Medicine and Dentistry of New Jersey	ONC
Susan B. Racette, PhD	Washington University School of Medicine	RPHB
Howard C. Rachlin, PhD	State University of New York at Stony Brook	BBBP
Jody A. Rada, PhD	University of Oklahoma Health Sciences Center	BDCN, IFCN
Dragomir R. Radev, PhD	University of Michigan	BPC
Justin D. Radolf, MD	University of Connecticut	IDM
Anna Radominska-Pandya, PhD	University of Arkansas For Medical Sciences	CVS
Christian R. Raetz, MD, PhD	Duke University Medical Center	BCS
Hershel Raff, MD, PhD	Medical College of Wisconsin	CDF, ONC
Marcela Raffacelli, PhD	University of Nebraska, Lincoln	AARR
Margaret V. Ragni, MD	University of Pittsburgh School of Medicine	IDM
David L. Rainwater, PhD	Southwest Foundation For Biomedical Research	HOP
Sanjay Rajagopalan, MD	University of Michigan at Ann Arbor	CVS
T. V. Rajan, MD, PhD	University of Connecticut School of Medicine and Dentistry	IDM
Ali Rajput, MD	Royal University Hospital	HOP
Jorge L. Rakela, MD	Mayo Clinic, Arizona	AARR, PPS
Daniel P. Raleigh, PhD	State University of New York at Stony Brook	BPC
James A. Raleigh, PhD	North Carolina Clinical Cancer Center	ONC
Glenn F. Rall, PhD	Institute For Cancer Research	IDM
David A. Ralph, PhD	Belenus Biomedical, Inc	ONC
Gurumurthy Ramachandran, PhD	University of Minnesota	PPS
Vasan S. Ramachandran, MD	Boston University School of Medicine	CVS
Giuliano Ramadori, MD	University of Gottingen	MSD
Lalita Ramakrishnan, MD, PhD	University of Washington	IDM
Nirmala Ramanujam, PhD	University of Wisconsin, Madison	SRB
Narayanan Ramasubbu, PhD	University of Medicine and Dentistry of New Jersey	MSD
K. Ramaswamy, DVM, PhD	University of Illinois	AARR
Krishnamurthy Ramaswamy, PhD	University of Illinois at Chicago	PPS
Lorraine O. Ramig, PhD	University of Colorado at Boulder	BBBP
Jan M. Ramirez, PhD	University of Chicago	BDCN, IFCN
Jesus Ramirez-Valles, PhD	Juneteenth Productions	AARR
Ceon Ramon, PhD	University of Washington	SRB
Reuben Ramphal, MD	University of Florida	IDM
Thomas E. Rams, DDS	Temple University	MSD
Alistair J. Ramsay, PhD	Louisiana State University Health Sciences Center, New Orleans	AARR
Dale A. Ramsden, PhD	University of North Carolina, Chapel Hill	ONC
J. Michael Ramsey, PhD	Oak Ridge National Laboratory	BPC
Tariq M. Rana, PhD	University of Massachusetts Medical School, Worcester	AARR
Mark A. Rance, PhD	University of Cincinnati	BPC
Derrick E. Rancourt, PhD	University of Calgary	GNS
James B. Rand, PhD	Oklahoma Medical Research Foundation	MDCN
Troy D. Randall, PhD	Trudeau Institute, Inc	HEME
Brooke P. Randell, DNSc	University of Washington	RPHB
Gwendalyn J. Randolph, PhD	Mount Sinai School of Medicine	IMM
Charan Ranganath, PhD	University of California, Davis	BBBP
Vivek M. Rangnekar, PhD	University of Kentucky College of Medicine	ONC
Gary O. Rankin, PhD	Marshall University	PPS
Richard M. Ransohoff, MD, PhD	Cleveland Clinic Foundation	SRB
Laura P. Ranum, PhD	University of Minnesota	MDCN
C. V. Rao, PhD	American Health Foundation	ONC
Jasti S. Rao, PhD	University of Illinois	BCS, BDCN, ONC
Mrinalini C. Rao, PhD	University of Illinois at Chicago	PPS
Rajini Rao, PhD	Johns Hopkins University School of Medicine	BPC

Venigalla B. Rao, PhD	Catholic University of America	AARR
Didier Raoult, MD, PhD	University of The Mediterranee	CDF
Barbara A. Rapchak,	Leap of Faith Technologies, Inc	RPHB
Karen G. Raphael, PhD	University of Medicine and Dentistry of New Jersey	MSD, RPHB
Theodore Raphan, PhD	Brooklyn College	IFCN
Bruce D. Rapkin, MD, PhD	Sloan-Kettering Institute For Cancer Research	AARR
Jay F. Rappaport, PhD	Temple University	AARR, MDCN
Alan C. Rapraeger, PhD	University of Wisconsin	BCS
Leda Helen Raptis, PhD	Queen's University	BCS
John E. Rash, PhD	Colorado State University	CDF
Bashir Rashid, PhD	Purdue University	BCS
Dennis D. Rasmussen, PhD	University of Washington	IFCN
Douglas Rasmusson, PhD	Dalhousie University	IFCN
Rajiv R. Ratan, MD, PhD	Beth Israel Deaconess Medical Center	MDCN
Anthony J. Ratcliffe, PhD	Synthasome, Inc	MSD
Timothy L. Ratliff, PhD	University of Iowa	ONC
Lee Ratner, MD, PhD	Washington University	IDM
Paul H. Ratz, PhD	Virginia Commonwealth University	MSD
Scott L. Rauch, MD	Massachusetts General Hospital	IFCN
Victoria H. Raveis, PhD	Columbia University	RPHB
Katya Ravid, DSc, PhD	Boston University School of Medicine	ONC
Neelakanta Ravindranath, PhD,	Georgetown University Medical Center	ENR
H. Ralph Rawls, PhD	University of Texas Health Science Center at San Antonio	MSD
Chester A. Ray, MD, PhD	Pennsylvania State University	IFCN
Patricio E. Ray, MD	Children's National Medical Center	PPS
Rahul Ray, PhD	Madhuri Pharmaceuticals	ONC
Ranjit Ray, PhD	St. Louis University	IDM
Stuart C. Ray, MD	Johns Hopkins University	AARR, IDM
Helen E. Raybould, PhD	University of California, Davis	PPS
John R. Raymond, MD, PhD	Medical University of South Carolina	IFCN, MDCN, MSD
Keith Rayner, PhD	University of Massachusetts	BBBP
Avraham Raz, PhD	Wayne State University	ONC
Naftali Raz, PhD	Wayne State University	BDCN
Michael A. Rea, PhD	University of Houston	IFCN
Laurie K. Read, MD, PhD	State University of New York at Buffalo School of Medicine	IDM
Donald F. Ready, PhD	Purdue University, West Lafayette	CDF
Donald C. Reason, PhD	Children's Hospital and Research Center at Oakland	AARR
Ilaria L. Rebay, PhD	Whitehead Institute For Biomedical Research	MDCN
Michael L. Recce, PhD	New Jersey Institute of Technology	BBBP
Fabio A. Recchia, MD, PhD	New York Medical College	CVS
Jane F. Reckelhoff, PhD	University of Mississippi Medical Center	MSD
David T. Redden, PhD	University of Alabama at Birmingham	CVS
Prabhakara P. Reddi, PhD	University of Virginia, Charlottesville	BCS
Anilkumar K. Reddy, PhD	Baylor College of Medicine	CVS, HEME
Janardan K. Reddy, MD	Northwestern University	ONC
Ravinder D. Reddy, MBBS, MD	University of Pennsylvania	CDF, PPS
Sasiragha Priscilla Reddy, PhD	South Africa National Health Promotion Research and Development Group	AARR
Sekhar M. Reddy, PhD	Johns Hopkins University	PPS
Eva Redei, PhD	Northwestern University	BBBP
Nancy S. Redeker,	University of Medicine and Dentistry of New Jersey	RPHB
Mark S. Redfern, PhD	University of Pittsburgh	IFCN
Eugene Redmond, MD	Yale University School of Medicine	BDCN
Robert W. Redmond, PhD	Massachusetts General Hospital	ONC
Robert L. Redner, MD	University of Pittsburgh	ONC
Bruce Reed, PhD	University of California, Davis	BBBP
Randall R. Reed, PhD	Johns Hopkins University	IFCN
Michael K. Reedy, MD, PhD	Duke University Medical Center	BPC
Benjamin E. Reese, PhD	University of California, Santa Barbara	CDF
Anthony P. Reeves, PhD	Cornell University	SRB
Roger H. Reeves, PhD	Johns Hopkins University	IDM

Lynne J. Regan, PhD	Gordon Research Conferences	BPC
Wade G. Regehr, PhD	Harvard University Medical School	BDCN
Darrel A. Regier, MD	American Psychiatric Institute For Research and Education	RPHB
William F. Regnault, PhD	Food and Drug Administration	MSD
Joan Reibman, MD	New York University Medical Center	PPS
Nancy C. Reich, PhD	State University of New York	CDF
Nathaniel Reichek, MD	Allegheny University of Health Sciences	CVS
William M. Reichert, PhD	Duke University	BPC, SRB
Richard C. Reichman, MD, PhD	University of Rochester	AARR
John B. Reid, PhD	Oregon Social Learning Center	RPHB
Lola M. Reid, MD, PhD	University of North Carolina, Chapel Hill	MSD, SRB
Michael A. Reidy, PhD	University of Washington	SRB
Brian D. Reilly, PhD	Texas Tech University	IMM
Cavan S. Reilly, PhD	University of Minnesota	CVS
Judy S. Reilly, PhD	San Diego State University	BBBP
Richard T. Reilly, PhD	Johns Hopkins University	IMM
Peter S. Reinach, PhD	State College of Optometry	BDCN
Anton J. Reiner, PhD	University of Tennessee Health Science Center	CDF
Daniel Reines, PhD	Emory University	CDF, GNS
Arthur L. Reingold, MD	University of California, Berkeley	RPHB
Janet S. Reis, PhD	University of Illinois at Urbana-Champaign	RPHB
Ralph A. Reisfeld, MD, PhD	Scripps Research Institute	IMM
Susan T. Reisine, PhD	University of Connecticut School of Medicine and Dentistry	HOP, MSD
Emil Reisler, PhD	University of California, Los Angeles	BPC
David J. Reisman, PhD	University of South Carolina	ONC
Carol S. Reiss, PhD	New York University	BDCN, IDM, IFCN
Martin L. Reite, MD	University of Colorado Health Sciences Center	BDCN
Marvin S. Reitz, PhD	University of Maryland	AARR
Eliska Rejmankova, PhD	University of California	CDF
Norman R. Relkin, MD, PhD	Weill Medical College of Cornell University	HOP
Mary V. Relling	St. Jude Children's Research Hospital	CVS
David A. Relman, MD, PhD	Stanford University	IDM
Alan Remaley, PhD	Clinical Center, National Institutes of Health	BPC
Daniel G. Remick, MD	University of Michigan	SRB
David M. Rempel, MD	University of California, Berkeley	HOP
Ke Ren, MD, PhD	Baltimore College of Dental Medicine	IFCN
Rolf F. Renne, MD, PhD	Case Western Reserve University	AARR
Daniel W. Repperger, PhD	Wright-Patterson Air Force Base	MSD
Nicholas D. Reppucci, PhD	University of Virginia	RPHB
Marilyn D. Resh, PhD	Sloan-Kettering Institute For Cancer Research	CVS
Katheryn H. Resing, PhD	University of Colorado	BPC
Heidi S. Resnick, PhD	Medical University of South Carolina	BBBP
Helaine E. Resnick, PhD	Missouri Breaks Research, Inc	HOP
Ken A. Resnicow, PhD	University of Michigan at Ann Arbor	RPHB
Richard F. Rest, PhD	Drexel University College of Medicine	IDM
Linda L. Restifo, MD, PhD	University of Arizona	MDCN
Allan E. Rettie, PhD	University of Washington	CDF
Karen L. Reue, PhD	University of California, Los Angeles	BPC
Victor I. Reus, MD	University of California, San Francisco	GNS
Jane E. Reusch, MD	University of Colorado Health Sciences Center	CVS
Patricia A. Reuter-Lorenz, PhD	University of Michigan	BBBP, IFCN
Donna L. Rew, Edd	University of Texas at Austin	CDF
Ian J. Reynolds, PhD	University of Pittsburgh School of Medicine	MDCN
John R. Reynolds, PhD	Florida State University	HOP
Mark A. Reynolds, DDS, PhD	University of Maryland Baltimore Professional School	MSD
Nancy R. Reynolds, PhD	Ohio State University	AARR
Sandra L. Reynolds, PhD	University of Southern California	HOP
William S. Reznikoff, PhD	University of Wisconsin	IDM
William S. Rhode, PhD	University of Wisconsin	IFCN
Nelson L. Rhodus, DMD	University of Minnesota	ONC

David C. Ribar, PhD	George Washington University	HOP
Kurt M. Ribisl, PhD	Stanford University	RPHB
Roy J. Riblet, PhD	Torrey Pines Institute of Molecular Studies	IMM
George A. Ricaurte, MD, PhD	Johns Hopkins University	BDCN
Anthony J. Ricci, PhD	Louisiana State University Health Sciences Center, New Orleans	IFCN
Andrew P. Rice, PhD	Baylor College of Medicine	AARR
Louis B. Rice, MD	Case Western Reserve University	IDM
Margaret E. Rice, PhD	New York University School of Medicine	BDCN, MDCN
Peter J. Rice, PhD	East Tennessee State University	IMM
Keith M. Rich, MD, PhD	Washington University School of Medicine	MDCN
Stephen S. Rich, MD, PhD	Wake Forest University Health Sciences	HOP
Joanne S. Richards, PhD	Baylor College of Medicine	MSD
Nigel G. Richards, PhD	University of Florida	BPC
Bruce C. Richardson, MD, PhD	University of Michigan at Ann Arbor	IMM
Gary S. Richardson, MD	Sleep Disorders and Research Center	BDCN
Micheler R. Richardson, PhD	Meharry Medical College	IMM
George B. Richerson, MD, PhD	Yale University and Vamc	MDCN
John R. Richert, MD	Georgetown University Medical Center	BDCN
David W.H. Riches, PhD	National Jewish Medical and Research Center	IMM
Ellen R. Richie, PhD	University of Texas M.D. Anderson Cancer Center	IMM
Janet E. Richmond, PhD	University of Illinois at Chicago	MDCN
Allen B. Richon, PhD	Metaphore Pharmaceuticals, Inc	BPC
Victoria M. Richon, PhD	Aton Pharma, Inc	ONC
Robert C. Rickert, PhD	University of California, San Diego	IMM
Rebeca Rico-Hesse, PhD	Southwest Foundation For Biomedical Research	IDM
Conly L. Rieder, PhD	Wadsworth Center	CDF
Frederick M. Rieke, PhD	University of Washington	CDF
Harold C. Riethman, PhD	Wistar Institute	BPC, GNS
Robert Rifkin, MD	Barnes-Jewish Hospital	SRB
James E. Riggs, PhD	Rider University	IMM
Isidore Rigoutsos, PhD	IBM Thomas J. Watson Research Center	BPC
Yasuko Rikihisa, PhD	Ohio State University	IDM
James L. Riley, PhD	University of Pennsylvania	IMM
Rajiv N. Rimal, PhD	University of Texas at Austin	RPHB
Barbara K. Rimer, DPH	University of North Carolina, Chapel Hill	RPHB
John M. Rimoldi, PhD	University of Mississippi	BPC
Charles R. Rinaldo, PhD	University of Pittsburgh	AARR
Linda M. Rinaman, PhD	University of Pittsburgh	IFCN
Mercedes R. Rincon, PhD	University of Vermont	BPC, IMM
Dagmar Ringe, PhD	Brandeis University	BPC
John R. Riordan, PhD	Mayo Clinic, Arizona	BPC
Harvey A. Risch, MD, PhD	Yale University	HOP
Michael K. Riscoe, PhD	Veterans Affairs Medical Center	IDM
Fred O. Risinger, PhD	Idaho State University	IFCN
Erik L. Ritman, MBBS, MD	Mayo Clinic, Rochester	MSD, SRB
Robert C. Ritter, DVM, PhD	Washington State University	IFCN
Sue W. Ritter, PhD	Washington State University	IFCN
Mario Rivera, PhD	University of Kansas, Lawrence	BPC
Carol J. Rivin, PhD	Oregon State University	IDM
John D. Roache, PhD	University of Texas Health Science Center	BBBP
John D. Roback, MD, PhD	Emory University	CVS
Nikolaos Robakis, PhD	Mount Sinai School of Medicine	BDCN
Richard A. Robb, PhD	Mayo Clinic	BPC
Michael E. C. Robbins, PhD	Wake Forest University Health Sciences	ONC
Paul D. Robbins, PhD	University of Pittsburgh School of Medicine	IMM, ONC
James L. Roberts, PhD	University of Texas Health Science Center at San Antonio	BDCN
Jeffrey W. Roberts, PhD	Cornell University	BPC
Joanne E. Roberts, PhD	University of North Carolina, Chapel Hill	BBBP
Margo R. Roberts, PhD	University of Virginia Health System	AARR
Mary F. Roberts, PhD	Boston College	BCS

Paul C. Roberts, PhD	Wayne State University	IDM
Robert E. Roberts, MD, PhD	University of Texas Health Science Center, Houston	HOP
Rosalinda C. Roberts, PhD	University of Maryland	BDCN
Stephen D. Roberts, PhD	North Carolina State University, Raleigh	SRB
Thomas R. Roberts, PhD	Dana-Farber Cancer Institute	IDM
Timothy P. Roberts, PhD	University of Toronto	SRB
W. Neal Roberts, MD	Virginia Commonwealth University	HOP
Claudia S. Robertson, MD	Baylor College of Medicine	SRB
Erle S. Robertson, PhD	University of Pennsylvania	AARR
H. Thomas Robertson, MD	University of Washington	PPS
Hugh D. Robertson, PhD	Weill Medical College of Cornell University	IDM, PPS
John L. Robertson, PhD, VMD	Virginia Polytechnic Institute and State University	MSD
Donald A. Robin, PhD	San Diego State University	BBBP
Nathaniel H. Robin, MD	University of Alabama at Birmingham	GNS
Charles J. Robinson, DSc	Louisiana Tech University	BDCN
Christine C. Robinson	University of Colorado Health Sciences Center	IDM
Clifford R. Robinson, PhD	University of Delaware	BCS
J. Paul Robinson, PhD	Purdue University	HEME
Leslie A. Robinson, PhD	University of Tennessee	RPHB
Michael B. Robinson, MD, PhD	Children's Hospital of Philadelphia	MDCN
Richard C. Robinson, PhD	University of Texas Southwestern Medical Center at Dallas	RPHB
Robert G. Robinson, MD	University of Iowa	RPHB
Susan E. Robinson, PhD	Medical College of Virginia	BDCN
Rafaela R. Robles, EdD	Universidad Central Del Caribe	AARR
Walter A. Rocca, MD	Mayo Clinic, Rochester	HOP
James Rochon, PhD	Duke University	HOP
Cheryl L. Rock, PhD	University of California, San Diego	HOP
David M. Rocke, PhD	University of California, Davis	GNS
Howard E. Rockette, PhD	University of Pittsburgh	HOP
Daniel D. Rockey, PhD	Oregon State University	IDM
Don C. Rockey, MD	Duke University Medical Center	PPS
Howard A. Rockman, MD	Duke University Medical Center	CVS
Stanley G. Rockson, MD	Gordon Research Conferences	CVS
Sara Rockwell, PhD	Yale University	ONC
Richard J. Rodeheffer, MD	Mayo Clinic, Rochester	BBBP
Heinrich Roder, PhD	Institute For Cancer Research	BPC
John C. Roder, PhD	Samuel Lunenfeld Research Institute	BDCN
Patricia M. Rodier, PhD	University of Rochester	ENR
Karin D. Rodland, PhD	Oregon Health and Science University	ONC
Robert L. Rodnitzky, MD	University of Iowa Hospitals	BBBP
Abimael D. Rodriguez, PhD	University of Puerto Rico, Rio Piedras	CDF
Eloy Rodriguez, PhD	Cornell University	CDF
German Rodriguez, PhD	Princeton University	HOP
Michael A. Rodriguez, MD	University of California, Los Angeles	HOP
Enrique J. Rodriguez-Boulan, MD, PhD	Cornell University Medical Center	CDF
Jorge F. Rodriguez-Sierra, PhD	University of Nebraska Medical Center	IDM
Kathryn Roeder, PhD	Carnegie Mellon University	GNS, HOP
Sandra C. Roerig, PhD	Louisiana State University	IFCN
Blake J. Roessler, MD, PhD	University of Michigan at Ann Arbor	BCS
James E. Rogers, PhD	Edgewood Chemical Biological Center, Aberdeen Proving Grounds	IDM
Joseph B. Rogers, PhD	Sun Health Research Institute	AARR
Mark W. Rogers, PhD	Northwestern University	MSD
Scott W. Rogers, PhD	University of Utah School of Medicine	BDCN
Susan M. Rogers, PhD	Research Triangle Institute	AARR
Thomas E. Rohan, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	HOP
Jurgen Rohr, PhD	University of Kentucky	BPC
Baerbel M. Rohrer, PhD	Medical University of South Carolina	MDCN
Yon Rojanasakul, PhD	West Virginia University	BPC
Donald C. Rojas, PhD	University of Colorado Health Sciences Center	BBBP, SRB
Marcos Rojkind, MD, PhD	George Washington University	PPS

Steven E. Rokita, MD, PhD	University of Maryland, College Park	ONC
Lorna W. Role, PhD	Columbia University College of Physicians and Surgeons	BDCN
John M. Roll, PhD	University of California, Los Angeles	HOP
Mark D. Rollag, PhD	Uniformed Services University of Health Sciences	IFCN
Richard J. Roller, PhD	University of Iowa	IDM
Barrett J. Rollins, MD, PhD	Dana-Farber Cancer Institute	CVS
Ann Roman, PhD	Indiana University School of Medicine	IDM
Brian B. Roman, PhD	University of Illinois at Chicago	SRB
Paul M. Roman, PhD	University of Georgia	HOP
Patricia Romans, PhD	University of Toronto	IDM
Lawrence C. Rome, PhD	University of Pennsylvania	MSD
Tony Romeo, PhD	Emory University	IDM
Michael F. Romero, PhD	Case Western Reserve University	MDCN
Zeev A. Ronai, PhD	Mount Sinai Medical Center	ONC
Brenda J. Rongish, PhD	University of Kansas Medical Center	CDF
Gabriele V. Ronnett, MD, PhD	Johns Hopkins University	IFCN, MDCN
G. David Roodman, PhD	University of Pittsburgh Cancer Institute	MSD
R. Martin Roop, PhD	East Carolina University School of Medicine	IDM
Derry C. Roopenian, PhD	Jackson Laboratory	IMM
Steven N. Roper, MD	University of Florida	BDCN
Lucy B. Rorke, MD	Children's Hospital of Philadelphia	BDCN
James C. Rose, PhD	Wake Forest University Health Sciences	ENR
Jennifer S. Rose, PhD	Brown University	HOP
John P. Rose, PhD	University of Georgia	BCS, BPC
Richard J. Rose, PhD	Indiana University	HOP
Steven C. Rose, MD	University of California, San Diego	SRB
Susan A. Rose, PhD	University of Tennessee, Memphis	BBBP
Barry P. Rosen, PhD	Gordon Research Conferences	IDM
Carol L. Rosen, MD	Case Western Reserve University	PPS
Clifford J. Rosen, MD, PhD	Jackson Laboratory	MSD
Eric Rosen, MD	Duke University	SRB
Evan D. Rosen, MD, PhD	Beth Israel Deaconess Medical Center	NMS
Glenn D. Rosen, MD	Beth Israel Medical Center (New York)	MDCN
Jeffrey B. Rosen, PhD	University of Delaware	IFCN
Jeffrey M. Rosen, PhD	Baylor College of Medicine	CDF
Michael J. Rosen, PhD	Anthrotronix, Inc	MSD
Vicki A. Rosen, PhD	Harvard University Medical School	MSD
Daniel M. Rosenbaum, MD	Albert Einstein College of Medicine, Yeshiva University	CDF
James T. Rosenbaum, MD	Oregon Health and Science University	MSD
Daniel W. Rosenberg, PhD	University of Connecticut Health Center	ONC
Lynn Rosenberg, DSc, ScD	Boston University	HOP
Susan M. Rosenberg, PhD	University of Alberta	IDM
Yvonne J. Rosenberg, PhD	Procell Corporation	AARR
Judah Rosenblatt, PhD	University of Texas Medical Branch	MSD, SRB
Michael E. Rosenfeld, PhD	University of Washington	CVS
Myrna R. Rosenfeld, MD, PhD	University of Pennsylvania	ONC
Sarah L. Rosenfield, PhD	Rutgers University	RPHB
Jeffrey M. Rosenstein, PhD	George Washington University	BDCN
Philip J. Rosenthal, MD	San Francisco General Hospital	IDM
Lanny J. Rosenwasser, MD	National Jewish Medical and Research Center	IMM
Amy C. Rosenzweig, PhD	Northwestern University	BPC
Zeev Rosenzweig, PhD	University of New Orleans	BPC
Alan G. Rosmarin, MD	Miriam Hospital	CVS
Gary Rosner, PhD	University of Texas M.D. Anderson Cancer Center	BPC
Philip M. Rosoff, MD	Duke University Medical Center	ONC
Christopher A. Ross, DVM, MD	Johns Hopkins University	BDCN
David Ross, PhD	University of Colorado Health Sciences Center	ONC
Elliott M. Ross, PhD	University of Texas Southwestern Medical Center at Dallas	CVS, MDCN
Gordon D. Ross, PhD	University of Louisville	IMM
J. B. Alexander Ross, PhD	University of Montana	SRB

Jeffrey S. Ross, MD	Albany Medical College of Union University	ONC
Julie A. Ross, PhD	University of Minnesota, Twin Cities	HOP
Lainie Friedman Ross, MD, PhD	University of Chicago	HOP
Mark M. Ross, PhD	Argonex, Inc	GNS
Michael W. Ross, PhD	University of Texas Health Science Center	AARR
B. R. Simon Rosser, PhD	University of Minnesota	AARR
John J. Rossi, PhD	City of Hope National Medical Center	AARR
Michael G. Rossmann, PhD	Purdue University	BCS
Burkhard Rost, PhD	Columbia University	BPC
Abdolmohamad Rostami, MD, PhD	Thomas Jefferson University	BDCN
Caren M. Rotello, PhD	University of Massachusetts	BBBP
Vincent M. Rotello, PhD	University of Massachusetts	BPC, SRB
Andrew J. Roth, MD	Sloan-Kettering Institute For Cancer Research	RPHB
Bradley J. Roth, PhD	Oakland University	CVS
Bryan L. Roth, MD, PhD	Case Western Reserve University	BDCN
Gerald J. Roth, MD	University of Washington	HEME
John R. Roth, PhD	University of California, Davis	IDM
Monica J. Roth, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	BCS, BPC
Steven Roth, MD	University of Chicago	CDF
Thomas D. Roth, MD, PhD	Case Western Reserve University, Henry Ford Health Services Center	IFCN
Jonathan B. Rothbard, PhD	Cellgate, Inc	IMM
Myron Rothbart, PhD	University of Oregon	BBBP
Esther D. Rothblum, PhD	University of Vermont and State Agricultural College	RPHB
Richard B. Rothenberg, MD	Emory University	AARR
Douglas L. Rothman, PhD	Yale University School of Medicine	SRB
Joel H. Rothman, PhD	University of California, Santa Barbara	CDF
Susan A. Rothmann, PhD	Fertility Solutions, Inc	NMS
Jeffrey D. Rothstein, MD, PhD	Johns Hopkins University	BDCN
Joseph L. Roti-Roti, PhD	Washington University School of Medicine	ONC
David A. Rottenberg, MD	University of Minnesota	MDCN
Jerome I. Rotter, MD	Cedars-Sinai Medical Center	CVS
Michael L. Roukes, PhD	California Institute of Technology	BPC
Barry T. Rouse, DSc	University of Tennessee	IDM
Denis L. Rousseau, PhD	Albert Einstein College of Medicine, Yeshiva University	BPC
Michael P. Rout, PhD	The Rockefeller University	CDF
Aryeh Routtenberg, PhD	Northwestern University	BDCN
Peter C. Rowe, MD	Johns Hopkins University	MSD
Andrew S. Rowland, PhD	University of New Mexico, Albuquerque	HOP
Neil E. Rowland, PhD	University of Florida	IFCN
John A. Rowlands, PhD	Sunnybrook and Women's College Health Sciences Center	SRB
Craig R. Roy, PhD	Yale University	IDM
Polly Roy, PhD	University of Alabama at Birmingham	IDM
Shuvo Roy, PhD	Cleveland Clinic Foundation	BPC, PPS
Renee Royak-Schaler, PhD	Institute For Cancer Prevention	HOP
Walter I. Royal, MD	Morehouse School of Medicine	AARR
Pradip Roy-Burman, PhD	University of Southern California	ONC
Rachel A. Royce, PhD	University of North Carolina	HOP
William E. Royer, PhD	University of Massachusetts Medical School, Worcester	BCS
Lawrence S. Ruben, PhD	Dedman College	AARR
Arthur J. Rubens, DPH, DRPH	Florida Gulf Coast University	RPHB
Edward B. Rubenstein, MD	University of Texas M.D. Anderson Cancer Center	ONC
John L. Rubenstein, MD, PhD	University of California, San Francisco	MDCN
Peter A. Rubenstein, PhD	University of Iowa	CDF
Jeffrey W. Ruberti, PhD	Cambridge Polymer Group, Inc	BDCN
Emanuel Rubin, MD, PhD	Thomas Jefferson University	PPS
Jonathan M. Rubin, MD, PhD	University of Michigan Hospital	SRB
Marcia A. Rubin, PhD	American School Health Association	HOP
Kenneth A. Rubinson, PhD	Five Oaks Research Institute	BPC, IDM
Daniel S. Ruchkin, PhD	University of Maryland	IFCN
Erling Rud, PhD	Health Canada	AARR

Nancy H. Ruddle, PhD	Yale University School of Medicine	IMM
Douglas M. Ruden, PhD	University of Alabama at Birmingham	IFCN
Laurie A. Rudman, PhD	Rutgers University	RPHB
Yoram Rudy, PhD	Case Western Reserve University	MDCN
Constance E. Ruhl, MD, PhD	Social and Scientific Systems, Inc	HOP
Gordon S. Rule, PhD	Carnegie Mellon University	BPC
Raymond B. Runyan, PhD	University of Arizona	CDF, CVS, HEME
Erkki I. Ruoslahti, MD, PhD	Burnham Institute	ONC
David Ruppert, PhD	Cornell University	HOP
Michael J. Ruppert, MD, PhD	University of Alabama, Birmingham	ONC
Craig R. Rush, PhD	University of Kentucky	BBBP
Gerard Rushton, PhD	University of Iowa	HOP
James F. Rusling, PhD	University of Connecticut, Storrs	BPC, GNS
Marjorie E. Russel, PhD	The Rockefeller University	IDM
Alan J. Russell, PhD	University of Pittsburgh	MSD
Gerald S. Russell, PhD	Elecenterical Geodesics, Inc	BDCN
James T. Russell, DVM, PhD	National Institute of Child Health and Human Development	MDCN
James W. Russell, MD	University of Michigan	BDCN
Paul R. Russell, PhD	Scripps Research Institute	IDM
Thomas P. Russell, PhD	University of Massachusetts	SRB
William E. Russell, MD	Vanderbilt University	ONC
Jose Russo, MD	Fox Chase Cancer Center	ONC
Thomas A. Russo, MD	University of Buffalo	IDM, SRB
Irina M. Russu, PhD	Wesleyan University	BCS
George S. Rust, MD	Morehouse School of Medicine	HOP
Anil K. Rustgi, MD	University of Pennsylvania	PPS
Aldo Rustioni, MD, PhD	University of North Carolina	IFCN
Steven Ruzin, PhD	University of California	CDF
James T. Ryaby, PhD	Orthologic Corporation	MSD
Brenda M. Ryals, PhD	James Madison University	IFCN
Christopher M. Ryan, PhD	University of Pittsburgh	HOP
Louise M. Ryan, PhD	Harvard University School of Public Health	HOP
Timothy A. Ryan, PhD	Weill Medical College of Cornell University	MDCN
Leonard P. Rybak, MD, PhD	Southern Illinois University School of Medicine	IFCN
Benjamin A. Rybicki, PhD	Henry Ford Health Sciences Center	HOP
Mark I. Ryder, DDS, DMD	University of California, San Francisco	MSD
Thomas Brendan Ryder, PhD	Affymetrix	GNS
David B. Rye, MD, PhD	Emory University	IFCN
Timothy C. Ryken, MD	University of Iowa Hospitals	MDCN
William Z. Rymer, MD, PhD	Rehabilitation Institute Research Corporation	MSD
Brian C. Rymond, PhD	University of Kentucky	CDF
Bart P. Rypma, PhD	Rutgers University	BBBP
J. Howard Rytting, PhD	University of Kansas	CVS
David K. Ryugo, PhD	Johns Hopkins University	IFCN
Andrey Rzhetsky, PhD	Exergen Biosciences, Inc	GNS
Esther L. Sabban, PhD	New York Medical College	IFCN
Eric E. Sabelman, PhD	Stanford University	MDCN
John B. Sacci, PhD	University of Maryland Baltimore Professional School	IDM
Ralph L. Sacco, MD, PhD	Columbia University College of Physicians and Surgeons	HOP
George Sachs, DSc, MB	University of California, Los Angeles	MSD
Matthew S. Sachs, PhD	Oregon Health and Science University	IDM
William H. Sack, MD	Oregon Health and Science University	HOP
J. Chris Sackellares, MD	University of Florida	BDCN
Judith E. Sackoff, PhD	Medical and Health Research Associates	AARR
David B. Sacks, MB, MD	Brigham and Women's Hospital	MDCN
Michael S. Sacks, PhD	University of Pittsburgh	MDCN, SRB
Todd C. Sacktor, MD	State University of New York Downstate Medical Center	MDCN
Scheherazade Sadegh-Nasseri, PhD	Johns Hopkins University	IMM
Michel Sadelain, MD, PhD	Memorial Sloan-Kettering Cancer Center	CVS
Junichi Sadoshima, MD, PhD	University of Medicine and Dentistry of New Jersey	CVS, PPS, HEME

Rogelio Saenz, PhD	Texas A&M University	HOP
Ahmad R. Safa, PhD	Indiana University-Purdue University, Indianapolis	ONC
Robert L. Safirstein, MD	University of Arkansas For Medical Sciences	PPS
Steven A. Safren, PhD	Massachusetts General Hospital	AARR
Audrey F. Saftlas, PhD	University of Iowa	HOP
Robert L. Sah, MD, PhD	University of California, San Diego	MSD
Margaret S. Saha, PhD	College of William and Mary	CDF
Christie L. Sahley, PhD	Purdue University	IFCN
David J. Sahn, MD	Oregon Health and Science University	CVS, SRB
Sartaj K. Sahni, PhD	University of Florida	HEME
Abhiram Sahu, PhD	University of Pittsburgh School of Medicine	ENR
Linda J. Saif, PhD	Ohio State University	AARR
Mohammed Saifuddin, DVM, PhD	Rush-Presbyterian-St. Luke's Medical Center	AARR
Jean-Pierre Saint-Jeannet, PhD	University of Pennsylvania	MDCN
Ram M. Sairam, PhD	Clinical Research Institute of Montreal	NMS
Haruo Saito, PhD	Dana-Farber Cancer Institute	CDF
Randall R. Sakai, PhD	University of Cincinnati	IFCN
John Sakers	Younts Consulting, Inc	HOP
Abdulla K. Salahudeen, MD	University of Mississippi Medical Center	PPS
Guy Salama, PhD	University of Pittsburgh School of Medicine	MDCN
John D. Salamone, PhD	University of Connecticut	BBBP
David J. Salant, MB, MD	Boston Medical Center	MSD
Tim Salcudean, PhD	University of British Columbia	SRB
Padmini Salgame, PhD	Temple University	AARR
Ravi Salgia, MD, PhD	University of Chicago	ONC
Patricia C. Salinas, PhD	Imperial College of Science, Technology and Medicine	MDCN
Patricia M. Saling, PhD	Duke University School of Medicine	ENR
Dean F. Salisbury, PhD	McLean Hospital (Belmont, MA)	BBBP
Alvin J. Salkind, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	SRB
David P. Salmon, PhD	University of California, San Diego	BDCN
Edward D. Salmon, PhD	University of North Carolina, Chapel Hill	CDF
David A. Saloner, PhD	Northern California Institute For Research and Education	SRB
Alec N. Salt, PhD	Washington University	IFCN
Russell D. Salter, PhD	University of Pittsburgh	IMM
Robert F. Saltz, PhD	Prevention Research Center	HOP
W. Mark Saltzman, PhD	Yale University	CVS, SRB
Ashok K. Saluja, PhD	University of Massachusetts Medical School, Worcester	PPS
Paul M. Salvaterra, PhD	City of Hope National Medical Center	MDCN
Maria S. Salvato, PhD	University of Maryland Biotechnology Institute	IDM
Guy S. Salvesen, PhD	Burnham Institute	MDCN
Richard J. Salvi, PhD	University of Buffalo	IFCN
Brian Matthew Salzberg, PhD	University of Pennsylvania	MDCN
Steven L. Salzberg, PhD	Institute For Genomic Research	MDCN
Kumar Sambamurti, DDS, PhD	Medical University of South Carolina	BCS
Jonathan M. Samet, MD	Johns Hopkins University	HOP
Carol Sammeth, PhD	University of Colorado at Boulder	IFCN
Matthew H. Samore, MD	University of Utah School of Medicine	IDM
Clare E. Sample, PhD	St. Jude Children's Research Hospital	AARR
Jeffery T. Sample, PhD	St. Jude Children's Research Hospital	GNS
Gregory P. Samsa, PhD	Duke University	HOP, SRB
Leona D. Samson, MD, PhD	Environmental Mutagen Society	ONC
Ram Samudrala, PhD	University of Washington	BPC
Thaddeus T. Samulski, PhD	Duke University	ONC
Ka-Yiu San, PhD	Rice University	MSD
Harry Sanabria, PhD	University of Pittsburgh	RPHB
Gerard Sanacora, MD, PhD	Yale University	BDCN
David M. Sanbonmatsu, PhD	University of Utah	RPHB
Irma Sanchez, PhD	Harvard University	CDF
Linda J. Sandell, PhD	Washington University	MSD
Paul W. Sanders, MD	University of Alabama at Birmingham	CVS

Stephanie Sanders, PhD	Indiana University, Bloomington	MSD
Virginia M. Sanders, MD, PhD	Ohio State University	IFCN
Michael J. Sanderson, PhD	University of Massachusetts	CDF
Kathy Sanders-Phillips, PhD	Howard University	AARR
Robert S. Sandler, MD	University of North Carolina, Chapel Hill	PPS
Steven J., Sandler, PhD	University of Massachusetts, Amherst	IDM
Rozanne M. Sandri-Goldin, PhD	University of California, Irvine	GNS
Jeff M. Sands, MD	Emory University School of Medicine	MSD
Mark S. Sands, PhD	Washington University School of Medicine	GNS
Paul Sandstrom, PhD	National HIV and Retrovirology Laboratories	AARR
John D. Sandy, PhD	Shriners Hospital For Children	MSD
Dan H. Sanes, PhD	New York University	IFCN
Jerome N. Sanes, PhD	Brown Medical School	MSD
Joshua R. Sanes, MD, PhD	Harvard University	MDCN
Larry D. Sanford, PhD	Eastern Virginia Medical School	IFCN
Joseph W. Sanger, PhD	University of Pennsylvania	MSD
Narendra T. Sanghvi	Interscience Research, Inc	SRB
Pamela L. Sankar, PhD	University of Pennsylvania	GNS, HOP
Michel F. Sanner, PhD	Scripps Research Institute	BPC
John Santalucia, PhD	Wayne State University	GNS
Susan L. Santangelo, DSc, PhD	Massachusetts General Hospital	BBBP
Maria M. Santore, PhD	University of Massachusetts, Amherst	MSD
Nanette F. Santoro, MD	Albert Einstein College of Medicine, Yeshiva University	ENR
Alberto B. Santos, MD	Medical University of South Carolina	GNS
Robert L. Santos, PhD	Nustats Research and Consulting	HOP
Joseph R. Santos-Sacchi, PhD	Yale University	IFCN
Arun J. Sanyal, MD	Medical College of Virginia	PPS
Clifford B. Saper, MD, PhD	Beth Israel Deaconess Medical Center	BDCN
Hreday N. Sapru, PhD	University of Medicine and Dentistry of New Jersey	CVS
Sally R. Sarawar, PhD	Torrey Pines Institute of Molecular Studies	AARR
James D. Sargent, MD	Dartmouth College	HOP
Mehmet Sarikaya, PhD	University of Washington	BPC
Fazlul H. Sarkar, PhD	Wayne State University	ONC
Avina Sarna, MD	Population Council	AARR
Sushil K. Sarna, PhD	University of Texas Medical Branch at Galveston	PPS
Malisa Sarntinoranont, PhD	University of Florida	MSD
Armen Sarvazyan, DSc	Artann Laboratories, Inc	SRB
Edwin J. Sarver, PhD	Sarver and Associates, Inc	MDCN
Antonio Sastre, PhD	Midwest Research Institute	PPS, SRB
William A. Sather, PhD	University of Colorado Health Sciences Center	MDCN
Leslie S. Satin, PhD	Virginia Commonwealth University	NMS
Lisa M. Satlin, MD	Mount Sinai School of Medicine	MSD
James D. Satterlee, PhD	Washington State University	BPC
John J. Sauk, DDS	University of Maryland Dental School	MSD
Karen K. Saules, PhD	Eastern Michigan University	BBBP
Kathryn J. Saunders, PhD	University of Kansas	BBBP
Paul B. Savage, PhD	Brigham Young University	BPC
Virginia J. Savin, MD	Medical College of Wisconsin	MSD
Robert S. Savit, PhD	University of Michigan	IFCN
Paul E. Sawchenko, PhD	Salk Institute For Biological Studies	IFCN
Ronald J. Sawchuk, PhD	University of Minnesota	BPC
Nancy M. Sawtell, PhD	Children's Hospital Medical Center, Cincinnati	IDM
Indu Saxena, PhD	Intelligent Optical Systems, Inc	MSD
Mohammed M. Sayeed, PhD	Loyola University Medical Center	SRB
Aline G. Sayer, EdD, PhD	Harvard University	HOP
Andrew J. Saykin, PhD	Dartmouth College	BDCN, SRB
Tracy Sbrocco, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	BBBP, HOP, RPHB
Larry Scahill, PhD	Yale University Medical Center	BBBP
Thomas F. Scanlin, MD	Children's Hospital of Philadelphia	BCS
Frank A. Scannapieco, DDS, DMD	State University of New York at Buffalo	MSD

Isabel C. Scarinci-Searles, PhD	University of Alabama at Birmingham	BBBP, RPHB
Suzanne F. Scarlata, PhD	State University of New York at Stony Brook	BPC
Richard C. Scarpulla, PhD	Northwestern University Medical School	GNS
Andrew P. Schachat, MD	Johns Hopkins University	BDCN
Samuel M. Schacher, PhD	New York State Psychiatric Institute	IFCN, MDCN
Charles F. Schachtele, PhD	University of Minnesota, Twin Cities	MSD
Timothy W. Schacker, MD	University of Minnesota	AARR
Daniel L. Schacter, PhD	Harvard University	IFCN
Peter A. Schad, PhD	Alphagene, Inc	GNS
Philip R. Schaefer,	Vortant Technologies, LLC	MSD
Anthony J. Schaeffer, MD	Northwestern University	MSD
William R. Schafer, PhD	University of California, San Diego	MDCN
Alejandro A. Schaffer, PhD	National Library of Medicine	GNS, MDCN
David V. Schaffer, PhD	Integrative Gene Therapeutics	BCS
Jean E. Schaffer, MD	Washington University School of Medicine	NMS
Joseph I. Schaffer, MD	University of Texas Southwestern Medical Center at Dallas	HOP
Donald W. Schaffner, PhD	Rutgers University	IDM
Daniel J. Schaid, PhD	Mayo Clinic, Rochester	GNS
Carolyn N. Schanen, MD	University of California, Los Angeles	BDCN
Lisa Scharff, PhD	Children's Hospital	MSD
Matthew D. Scharff, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	IMM
Helen E. Scharfman, PhD	Helen Hayes Hospital	MDCN
Gina C. Schatteman, PhD	University of Iowa	MSD
Paula Elyse Schauwecker, PhD	University of Southern California	BDCN
Alan N. Schechter, MD	National Institute of Diabetes and Digestive and Kidney Diseases	HEME
Paul D. Schedl, PhD	Princeton University	CDF, GNS
Robert A. Scheidt, PhD	Marquette University	MSD
W. R. Scheidt, PhD	University of Notre Dame	BPC
Gerard D. Schellenberg, PhD	University of Washington	BBBP, BDCN
Cara-Lynne Schengrund, PhD	Pennsylvania State University Hershey Medical Center	IDM
Jean J. Schensul, PhD	Institute For Community Research	HOP
Philipp E. Scherer, PhD	Albert Einstein College of Medicine, Yeshiva University	NMS
Ronald C. Scherer, PhD	Bowling Green State University	BBBP
Richard H. Scheuermann, PhD	University of Texas Southwestern Medical Center at Dallas	ONC
Kevin L. Schey, PhD	Medical University of South Carolina	BDCN
Brenda S. Schick, PhD	University of Nebraska, Lincoln	BBBP, GNS
Marc H. Schieber, MD, PhD	University of Rochester	IFCN
Richard M. Schieken, MD	Virginia Commonwealth University	HOP
Robert H. Schiestl, PhD	University of California, Los Angeles	ONC
Celia A. Schiffer, PhD	University of Massachusetts Medical School, Worcester	SRB
Wilfried Schildkamp, PhD	University of Chicago	BPC
Joellen M. Schildkraut, PhD	Duke University Medical Center	HOP
Peter H. Schiller, MD, PhD	Massachusetts Institute of Technology	IFCN
Peter W. Schiller, PhD	Clinical Research Institute of Montreal	MDCN
Steven P. Schinke, PhD	Columbia University	HOP
Ernestina Schipani, MD, PhD	Massachusetts General Hospital	ONC
Robert F. Schleif, PhD	Johns Hopkins University	IDM
Robert P. Schleimer, MD, PhD	Johns Hopkins University	PPS
Mark R. Schleiss, MD	Children's Hospital Medical Center, Cincinnati	HOP
William E. Schlenger, PhD	Research Triangle Institute	RPHB
Sarah J. Schlesinger, MD	Aaron Diamond Aids Research Center	AARR
Patrick M. Schlievert, PhD	University of Minnesota Medical School	CVS, IMM
Mark S. Schlissel, MD, PhD	University of California, Berkeley	IMM
David G. Schlundt, PhD	Vanderbilt University	RPHB
Karen B. Schmaling, PhD	University of Texas at El Paso	MSD
Molly B. Schmid, PhD	Affinium Pharmaceuticals, Inc	IDM
Ann M. Schmidt, MD, PhD	Columbia University	CVS
Christine E. Schmidt, PhD	University of Texas at Austin	MSD
Francis J. Schmidt, PhD	University of Missouri, Columbia	GNS, IDM
David W. Schmidtke, PhD	University of Oklahoma	BPC

Kathryn H. Schmitz, PhD	University of Minnesota	HOP
Ronald L. Schnaar, PhD	Johns Hopkins University	BPC
Mitchell D. Schnall, MD, PhD	University of Pennsylvania	SRB
Anette Schneemann, PhD	Scripps Research Institute	IDM
Olaf Schneewind, MD, PhD	University of Chicago	IDM
Jill E. Schneider, PhD	Lehigh University	IFCN
Robert J. Schneider, PhD	New York University School of Medicine	BCS, IDM
Matthias J. Schnell, PhD	Thomas Jefferson University	IDM
Rick G. Schnellmann,	Medical University of South Carolina	PPS
Dale A. Schoeller, PhD	University of Wisconsin	NMS
Ellie E. Schoenbaum, MD, PhD	Montefiore Medical Center	AARR
Daniel R. Schoenberg, PhD	Ohio State University	BCS
Stephen P. Schoenberger, PhD	La Jolla Institute For Allergy and Immunology	BPC
Norberta W. Schoene, PhD	United States Department of Agriculture	ENR
J. Martin Scholtz, PhD	Texas A&M University	BPC
Kevin T. Schomacker, PhD	Medispecentera, Inc	SRB
Nina R. Schooler, PhD	North Shore-Long Island Jewish Research Institute	HOP
David A. Schooley, PhD	University of Nevada	BCS, BPC
Mario Schootman, PhD	St. Louis University	HOP
Nina F. Schor, MD, PhD	Children's Hospital, Pittsburgh	MDCN
Vern L. Schramm, PhD	Yeshiva University	BPC, IDM
Christoph E. Schreiner, MD, PhD	University of California	IFCN
David Schretlen, PhD	Johns Hopkins University	BDCN
Bernard G. Schreurs, PhD	National Institute of Neurological Disorders and Stroke	IFCN
Scott R. Schriker, PhD	Ohio State University	MSD
Friedhelm Schroeder, PhD	Texas A&M University System	ENR, NMS
Harry W. Schroeder, MD, PhD	University of Alabama at Birmingham	IMM
Edward H. Schuchman, MD, PhD	Mount Sinai School of Medicine	GNS
Richard D. Schulick, MD	Johns Hopkins Hospital	SRB
Kevin A. Schulman, MD	Duke Clinical Research Institute	GNS
Bradley A. Schulte, MD, PhD	Medical University of South Carolina	IFCN
Thomas M. Schultheiss, MD, PhD	Beth Israel Deaconess Medical Center	MSD
Bruce D. Schultz, PhD	Kansas State University	MSD
Gregory S. Schultz, PhD	University of Florida	SRB
Jerome S. Schultz, PhD	University of Pittsburgh	BPC
Lonni Schultz, PhD	Henry Ford Health System	SRB
Richard M. Schultz, PhD	University of Pennsylvania	ENR, NMS
Robert A. Schulz, PhD	University of Texas M.D. Anderson Cancer Center	CDF
S. Charles Schulz, MD	University of Minnesota, Twin Cities	BBBP
Paul T. Schumacker, PhD	University of Chicago	PPS
Joel S. Schuman, MD	University of Pittsburgh	CDF
Clarence E. Schutt, PhD	Princeton University	BBBP
James S. Schwaber, PhD	Thomas Jefferson University Medical College	BPC, IDM, MDCN
Abe Schwartz, PhD	Center For Quantitative Cytometry	HEME
Charles E. Schwartz, PhD	Greenwood Genetic Center	BBBP
David C. Schwartz, MD, PhD	Opgen, Inc	GNS
David H. Schwartz, MD, PhD	Johns Hopkins University	AARR
Edward L. Schwartz, PhD	Montefiore Medical Center	ONC
Gary J. Schwartz, PhD	Weill Medical College of Cornell University	IFCN
Janice B. Schwartz, MD, PhD	Jewish Home of San Francisco	CVS
Jeffrey Schwartz, PhD	Princeton University	MSD
John H. Schwartz, MD	Boston Medical Center	MSD
Marc D. Schwartz, PhD	Georgetown University	GNS
Michael W. Schwartz, MD	Keystone Symposia	ENR
Philip H. Schwartz, PhD	Children's Hospital of Orange County	CDF
Stephen A. Schwartz, DMD, PhD	Touro College	MSD
Stephen Marc Schwartz, MD, PhD	Fred Hutchinson Cancer Research Center	HOP
Edward M. Schwarz, PhD	University of Rochester	IMM, MSD
Thomas L. Schwarz, PhD	Children's Hospital, Boston	MDCN
Paul O. Schwarzenberger, MD	Louisiana State University School of Medicine	BCS

Herbert P. Schweizer, PhD	Colorado State University	IDM
Steven P. Schwendeman, PhD	University of Michigan	BCS, BPC
Steven R. Schwid, MD	University of Rochester	RPHB
James E. Schwob, MD, PhD	Tufts University School of Medicine	MDCN
Christopher N. Sciamanna, MD	Brown University	RPHB
Frank C. Sciarba, MD	University of Pittsburgh	SRB
Anthony Sclafani, PhD	Brooklyn College	IFCN
R. Hal Scofield, MD	Oklahoma Medical Research Foundation	MSD
Alan L. Scott, PhD	Johns Hopkins University	IMM
Charles B. Scott, PhD	American College of Radiology	IDM
Charles P. Scott, PhD	Thomas Jefferson University	IDM
Edward W. Scott, PhD	University of Florida	CDF, IMM
Glynis A. Scott, MD	University of Rochester	MSD
Jamie K. Scott, MD, PhD	Simon Fraser University	AARR
Phillip A. Scott, PhD	University of Pennsylvania	IMM
Robert A. Scott, PhD	University of Georgia	BPC
William K. Scott, PhD	Duke University Medical Center	GNS
Kathleen W. Scotto, PhD	Institute For Cancer Research	IDM, ONC
Marlan Scully, PhD	Texas A&M University	IDM
Jeanne L. Seagard, PhD	Medical College of Wisconsin	PPS
Douglas R. Seals, PhD	Oklahoma State University, Stillwater	CVS
Geoffrey V. Seaman, PhD	Western Biomedical Research	SRB
Lee B. Sechrest, PhD	Children's Clinics For Rehabilitation Services	HOP
Timothy W. Secomb, PhD	University of Arizona	BPC, CVS, ONC
John R. Sedor, MD	Case Western Reserve University	HOP, MSD
Peter H. Seeberger, PhD	Burnham Institute	BPC
Christoph Seeger, PhD	Institute For Cancer Research	PPS
Mark A. Seeger, PhD	Ohio State University	MDCN
Randy J. Seeley, PhD	University of Cincinnati	MDCN
Ellen W. Seely, MD	Brigham and Women's Hospital	CVS
Michael V. Sefton, PhD, ScD	University of Toronto	BCS
David M. Segal, PhD	National Cancer Institute	IDM
Karen R. Segal, Edd, PhD	Mount Sinai School of Medicine	ENR
Rosalind A. Segal, MD, PhD	Dana-Farber Cancer Institute	MDCN
Anca M. Segall, PhD	San Diego State University	IDM
Sidney J. Segalowitz, PhD	Brock University	RPHB
Chandra M. Sehgal, PhD	University of Pennsylvania	SRB
J. Anthony Seibert, PhD	University of California, Davis	SRB
Mark S. Seidenberg, PhD	University of Wisconsin, Madison	BBBP
Michael D. Seidman, MD	Henry Ford Health System	IFCN
Ronald Seifer, PhD	Emma Pendleton Bradley Hospital	RPHB
H. Steven Seifert, PhD	Northwestern University	IDM
Rudolf W. Seitz, PhD	University of New Hampshire	BPC, IDM
Cynthia D. Selassie, PhD	Pomona College	BPC
William S. Selbie, PhD	C-Motion, Inc	IFCN, MSD
Liisa K. Selin, MD, PhD	University of Massachusetts Medical School, Worcester	IMM
Claude P. Selitrennikoff, PhD	Mycologics, Inc	IDM
Scott B. Selleck, MD, PhD	University of Minnesota, Twin Cities	BCS
James R. Sellers, PhD	National Heart, Lung and Blood Institute	CDF, MDCN
Frank W. Sellke, MD	Beth Israel Deaconess Medical Center	SRB
Warren R. Selman, MD, PhD	Case Western Reserve University	BDCN
Kazue Semba, PhD	Dalhousie University	IFCN
Serguei Y. Semenov, PhD	Carolinas Medical Center	SRB
Oliver J. Semmes, PhD	Eastern Virginia Medical School	BCS
Chandan K. Sen, PhD	Ohio State University	MSD
Ganes C. Sen, PhD	Cleveland Clinic Foundation	IMM
Ranjan Sen, PhD	Brandeis University	IMM
Alan E. Senior, PhD	University of Rochester	MSD
Susan E. Senogles, PhD	University of Tennessee	BDCN
Anne B. Sereno, PhD	University of Texas Health Science Center, Houston	BBBP

Anthony S. Serianni, PhD	University of Notre Dame	BPC
Julianne M. Serovich, PhD	Ohio State University	AARR
Rosa Serra, PhD	University of Alabama at Birmingham	ONC
Elba Serrano, PhD	New Mexico State University, Las Cruces	IFCN
Susan R. Sesack, PhD	University of Pittsburgh	IFCN
Jonathan L. Sessler, PhD	University of Texas	BPC
Vijayaradh Setaluri, PhD	Wake Forest University Health Sciences	MSD
Prem Seth, PhD	Human Gene Therapy Research Institute	BCS
Donald Seto, PhD	George Mason University	GNS
Edward Seto, PhD	University of South Florida	IMM
Rose A. Sevcik, PhD	Georgia State University	BBBP
Konstantin V. Severinov, PhD	Rutgers University	IDM
John M. Sewell,	Active Signal Technologies, Inc	BDCN
William F. Sewell, PhD	Massachusetts Eye and Ear Infirmary	IFCN
Robert M. Seyfarth, PhD	University of Pennsylvania	BBBP
William C. Sha, MD, PhD	University of California, Berkeley	IMM
Behrouz Shabestari, PhD	National Institutes of Health	SRB
Barbara L. Shacklett, PhD	J. David Gladstone Institutes	AARR
Gerald S. Shadel, PhD	Emory University	GNS
William G. Shadel, PhD	University of Pittsburgh	RPHB
Kimberly P. Shafer, PhD	University of California, San Francisco	AARR
William M. Shafer, PhD	Gordon Research Conferences	IDM
Shishir K. Shah, PhD	Spin Diagnostics, Inc	SRB
Shai Shaham, PhD	The Rockefeller University	MDCN
Mahnaz Shahidi, MD, PhD	University of Illinois at Chicago	BDCN
Harry N. Shair, PhD	New York State Psychiatric Institute	BDCN
Reza Shaker, MD	Medical College of Wisconsin	PPS
Stuart L. Shalat, DSc, PhD	University of Medicine and Dentistry of New Jersey	HOP
Robin Shandas, PhD	University of Colorado at Boulder	PPS
Robert E. Shangraw, MD, PhD	Oregon Health and Science University	SRB
Raj Shankarappa, PhD	Allegheny-Singer Research Institute	AARR
Donald Shankweiler, PhD	Haskins Laboratories	BBBP
Ram Shanmugam, PhD	Southwest Texas State University	IDM, SRB
Kevin M. Shannon, MD	University of California, San Francisco	ONC
Robert V. Shannon, PhD	House Ear Institute	IFCN
Thomas A. Shannon, PhD	Worcester Polytechnic Institute	GNS
Joel H. Shaper, PhD	Johns Hopkins University	BCS, BPC
Stuart K. Shapira, MD, PhD	Baylor College of Medicine	BCS
Bruce Shapiro, PhD	National Cancer Institute	BCS, BPC
Irving M. Shapiro, DDS	Thomas Jefferson University	MSD
Lawrence Shapiro, PhD	Columbia University	BPC
Lewis P. Shapiro, PhD	San Diego State University	BBBP
Marjorie A. Shapiro, PhD	Food and Drug Administration	IMM
Peter A. Shapiro, MD	Columbia University	RPHB
Sander S. Shapiro, MD, PhD	University of Wisconsin Medical School	NMS
Paul Shapshak, PhD	University of Miami School of Medicine	AARR
Robert M. Sharkey, PhD	Garden State Cancer Center	ONC
Krishna K. Sharma, PhD	University of Missouri	BDCN
Kumar Sharma, MD	Thomas Jefferson University	MSD
Patricia E. Sharp, PhD	Bowling Green State University	IFCN
Douglas M. Shasby, MD	University of Iowa College of Medicine	CVS
Chris C. Shaw, PhD	University of Texas M.D. Anderson Cancer Center	SRB
Gary S. Shaw, PhD	University of Western Ontario	CDF
Jocelyn E. Shaw, PhD	University of Minnesota, Twin Cities	BCS
Ribhi Shawar, PhD	Sound Microbiology Consulting	IDM
Terez Shea-Donohue, PhD	Uniformed Services University of Health Sciences	PPS
Timothy Sheard, PhD	Oregon University	BPC
Martin R. Sheehan, PhD	Iris Media, Inc	RPHB
Michael F. Sheets, MD	Nora Eccles Harrison CVRTI and The Division of Cardiology	PPS
Michael P. Sheetz, PhD	Columbia University	MDCN

Anantha Shekhar, MD, PhD	Indiana University	BBBBP
Michael L. Shelanski, MD, PhD	Harvard University Medical School	MDCN
Mark J. Shelhamer, PhD	Johns Hopkins University School of Medicine	SRB
Brent J. Shelton, PhD	University of Alabama at Birmingham	CVS
Chiayi Shen, PhD	University of Florida	SRB
Hao Shen, PhD	University of Pennsylvania	BPC
Jayant P. Shenai, MD	Vanderbilt University	NMS
Morgan H. Sheng, MBBS, PhD	Massachusetts Institute of Technology	MDCN
Shirish Shenolikar, PhD	Duke University School of Medicine	GNS
Martha E. Shenton, PhD	Harvard University	BDCN
Gordon M. Shepherd, MD, PhD	Yale University School of Medicine	MDCN
Rex E. Shepherd, PhD	University of Pittsburgh	AARR
Timothy J. Shepodd, PhD	Sandia National Laboratories	MSD
David S. Sheps, MD	University of North Carolina, Chapel Hill	BBBBP
Kenneth J. Sher, PhD	University of Missouri, Columbia	HOP
Christopher A. SHERA, PhD	Massachusetts Eye and Ear Infirmary	IFCN
John F. Sheridan, PhD	Ohio State University	IFCN
David L. Sherman, PhD	Infinite Biomedical Technologies, LLC	BDCN
David R. Sherman, PhD	University of Washington	IDM
Fred Sherman, PhD	University of Rochester	BCS
Jeffrey W. Sherman, Od, PhD	Northwestern University	BBBBP
Jim Sherman, PhD	Indiana University, Bloomington	RPHB
Stephanie L. Sherman, PhD	Emory University	ENR
Steven Jim Sherman, PhD	Indiana University, Bloomington	RPHB
Howard G. Shertzer, PhD	University of Cincinnati Medical Center	ONC
Andrew Sherwood, PhD	Duke University Medical Center	BBBBP
Shey-Shing Sheu, PhD	University of Rochester	PPS
Donna S. Shewach, PhD	University of Michigan at Ann Arbor	ONC
Wenyuan Shi, PhD	University of California, Los Angeles	IDM
Xianglin Shi, PhD	West Virginia University	ONC
Peter G. Shields, MD	Georgetown University Medical Center	RPHB
Margaret M. Shiffar, PhD	Rutgers University	BBBBP
Samuel C. Shiflett, PhD	Beth Israel Medical Center (New York)	RPHB
Chiaho Shih, PhD	World Health Organization Collaborating Center For Tropical Diseases	IDM
Holly Shill, MD	Barrow Neurological Institute	MDCN
Ken D. Shimizu, PhD	University of South Carolina at Columbia	BPC
Cheolsu Shin, MD	Mayo Clinic, Rochester	ENR
Dong-Guk Shin, PhD	University of Connecticut	MDCN
Young Shin, MD	Georgetown University Hospital	SRB
H. David Shine, PhD	Baylor College of Medicine	BDCN
Thomas M. Shinnick, PhD	Centers For Disease Control and Prevention	IDM
Michele P. Shipp, DrPH, MD	University of Alabama at Birmingham	HOP
Peter J. Shiromani, PhD	Veterans Affairs Medical Center	BDCN
Mark J. Shlomchik, MD, PhD	Yale University	ONC
Benjamin L. Shneider, MD	Mount Sinai Medical Center	ENR
Yuichi Shoda, PhD	University of Washington	RPHB
Menachem Shoham, PhD	Case Western Reserve University	BPC
Ralph V. Shohet, MD	University of Texas Southwestern Medical Center	BCS
Brian K. Shoichet, PhD	University of California, San Francisco	BPC
Molly S. Shoichet, PhD	University of Toronto	MDCN, MSD
Kevan M. Shokat, PhD	University of California, San Francisco	BPC
Stephanie A. Shore, PhD	Harvard University School of Public Health	PPS
Elizabeth W. Shores	Food and Drug Administration	IMM
Pamela Farley Short, PhD	Pennsylvania State University, University Park	HOP
David R. Shortle, MD, PhD	Johns Hopkins University	BCS
Louise C. Showe, PhD	Wistar Institute	ONC
Carolin J. Showers, PhD	University of Oklahoma, Norman	RPHB
Andrew P. Shreve, PhD	Los Alamos National Laboratory	BPC
Sanjeev Shroff, PhD	University of Pittsburgh	CVS, SRB
Patrick E. Shrout, PhD	New York University	HOP

Charles F. Shuler, DDS, DMD	University of South Carolina	MSD
Clifford W. Shults, MD	University of California, San Diego	BDCN
Marjorie M. Shultz, JD, PhD	University of California	HOP
Howard A. Shuman, PhD	Columbia University Health Science Center	IDM
K. Kirk Shung, PhD	University of Southern California	SRB
Ann-Bin Shyu, PhD	University of Texas Health Science Center, Houston	CDF
Mary L. Siantz, PhD	Indiana University-Purdue University, Indianapolis	HOP
Mukund P. Sibi, PhD	North Dakota State University	BPC
Nicholas E. Sibinga, MD	Yeshiva University	NMS
Kenneth Sibley, JD	Duke University	GNS
Domenic A. Sica, MD	Virginia Commonwealth University	MSD
Aleem A. Siddiqui, PhD	University of Colorado School of Medicine	IDM
Anita Sidhu, PhD	Georgetown University	BDCN
Diana L. Sidtis, PhD	New York University	BBBP
Joan E. Sieber, PhD	California State University, Hayward	HOP
Maya F. Sieber-Blum, PhD	Medical College of Wisconsin	MDCN
Scott M. Sieburth, PhD	Temple University	IDM
Gary C. Sieck, PhD	Mayo Clinic, Rochester	IFCN
Frederick P. Siegal, MD	St. Vincent's Hospital and Medical Center New York	AARR
Gene P. Siegal, MD, PhD	University of Alabama at Birmingham	ONC
Harvey A. Siegal, PhD	Wright State University	HOP
Jerome M. Siegel, PhD	University of California, Los Angeles	IFCN
Ruth E. Siegel, PhD	Case Western Reserve University	IFCN
Steven A. Siegelbaum, PhD	Columbia University Health Science Center	IFCN, MDCN
Greg J. Siegle, PhD	Western Psychiatric Institute and Clinic	BDCN
George R. Siggins, PhD	Scripps Research Institute	IFCN
Matthew S. Sigman, PhD	University of Utah	BPC
Curt D. Sigmund, PhD	University of Iowa	MSD
Frederick J. Sigworth, PhD	Yale University	MDCN
Vassilios I. Sikavitsas, PhD	University of Oklahoma	MSD
Robert A. Sikes, PhD	University of Delaware	MSD
Steven Sikes, PhD	Aquera Company, LLC	MSD
Thomas J. Silhavy, PhD	Princeton University	IDM
Christopher C. Silliman, MD, PhD	University of Colorado	CVS
Matthew J. Silva, PhD	Washington University	MSD
Jerry Silver, PhD	Case Western Reserve University	BDCN
Lynn L. Silver, PhD	Merck and Company, Inc	IDM
Pamela A. Silver, PhD	Dana-Farber Cancer Institute	CDF
Rae Silver, PhD	Columbia University	AARR, IFCN
Randi B. Silver, PhD	Cornell University	CDF
Robert B. Silver, PhD	Marine Biological Laboratory	CDF, ONC
Sylvia Silver	George Washington University Medical Center	AARR
Ann-Judith J. Silverman, PhD	Columbia University Health Science Center	MDCN
Edwin K. Silverman, MD, PhD	Brigham and Women's Hospital	HOP
Ronald H. Silverman, PhD	Weill Medical College of Cornell University	SRB
Faye S. Silverstein, MD	University of Michigan at Ann Arbor	BDCN
Allen E. Silverstone, PhD	State University of New York Upstate Medical University	CVS
Barbara M. Silver-Thorn, PhD	Marquette University	MSD
Kenny J. Simansky, PhD	Drexel University	IFCN
Robert D. Simari, MD	Mayo Clinic, Rochester	CVS
Richard B. Simerly, PhD	Oregon Health and Science University	IFCN
Anne E. Simon, PhD	University of Maryland	IDM
Daniel I. Simon, MD	Brigham and Women's Hospital	CVS
Francis R. Simon, MD	University of Colorado Health Science Center	PPS
Gregory E. Simon, MD	Center For Health Studies	RPHB
Jonathon L. Simon, DSc, ScD	Boston University	RPHB
Julian A. Simon, PhD	Fred Hutchinson Cancer Research Center	BPC
Scott I. Simon, PhD	University of California, Davis	MSD
Sidney A. Simon, PhD	Duke University	IFCN
Donald A. Simone, PhD	University of Minnesota	IFCN

Jane M. Simoni, PhD	University of Washington	AARR
Daniel J. Simons, PhD	University of Pittsburgh	IFCN
Michael Simons, MD	Dartmouth College	SRB
Robert F. Simons, PhD	University of Delaware	BBBP
Gregory V. Simpson, PhD	University of California	MDCN
Jeffery A. Simpson, PhD	Texas A&M University	RPHB
Larry P. Simpson, PhD	University of California, Los Angeles	IDM
Pippa M. Simpson, PhD	University of Arkansas	HOP, SRB
Laura J. Sim-Selley, PhD	Virginia Commonwealth University	MDCN
David Sinacore, PhD	University of Minnesota, Twin Cities	MSD
Elia A. Sinaiko, PhD		HOP
Robert E. Sinden	Imperial College of Science, Technology and Medicine	AARR
Thomas A. Singarella, PhD	University of Tennessee Health Science Center	RPHB
Eleanor Singer, PhD	University of Michigan	GNS
Lynn T. Singer, PhD	Case Western Reserve University	BBBP
Merrill C. Singer, PhD	Hispanic Health Council	AARR
Robert H. Singer, PhD	Albert Einstein College of Medicine, Yeshiva University	CDF
Bal Ram Singh, PhD	University of Massachusetts	AARR
Inderjit Singh, PhD	Medical University of South Carolina	BDCN
Neena Singh, MD, PhD	Case Western Reserve University	BDCN
Shivendra V. Singh, PhD	University of Pittsburgh Cancer Institute	ONC
Jenny Singleton, PhD	University of Illinois at Urbana-Champaign	BBBP
John R. Singleton, MD	University of Utah Medical Center	BDCN
Frank A. Sinicrope, MD	Mayo Clinic, Rochester	HOP
Janet S. Sinsheimer, PhD	University of California, Los Angeles	CVS
Albert J. Sinusas, MD	American Society of Nuclear Cardiology	CVS
Lorraine M. Siperko, PhD	Northeastern Ohio Universities College of Medicine	BPC
Helmy M. Siragy, MD	University of Virginia	MSD
Joanne Sirey, PhD	Weill Medical College of Cornell University	RPHB
Alphonse E. Sirica, PhD	Virginia Commonwealth University	ONC
Mike B. Siroky, MD	Boston Veterans Affairs Medical Center	MSD
Gale Sisney, MD	Georgetown University	SRB
Gary E. Siuzdak, PhD	Scripps Research Institute	BPC
Michael V. Sivak, MD, PhD	Case Western Reserve University	PPS
Hazel L. Sive, PhD	Whitehead Institute For Biomedical Research	CDF
Anders B. Sjostedt, MD, PhD	Umea University	BPC
William R. Skach, MD	Oregon Health and Science University	MSD
Jon T. Skare, PhD	Texas A&M University Health Science Center	IDM
James B. Skeath, PhD	Washington University	MDCN
Pate Skene, PhD	Duke University	MDCN
Larry A. Sklar, PhD	University of New Mexico	GNS
Jacek Skowronski, MD, PhD	Cold Spring Harbor Laboratory	AARR
John R. Sladek, PhD	University of Colorado Health Sciences Center	BDCN
Michael D. Slater, PhD	Colorado State University	RPHB
Clive A. Slaughter, PhD	St. Jude Children's Research Hospital	BCS
Malcolm M. Slaughter, PhD	State University of New York at Buffalo	CDF
Joanne L. Slavin, MD, PhD	University of Minnesota	BCS
Richard A. Slayden, PhD	Colorado State University	AARR
Barry P. Sleckman, MD, PhD	Washington University	IMM
Paul A. Slesinger, PhD	Salk Institute For Biological Studies	MDCN
Martin J. Sliwinski, PhD	Syracuse University	RPHB
Andrew E. Sloan, MD, PhD	Wayne State University	AARR
Roger D. Sloboda, PhD	Dartmouth College	CDF
Zili Sloboda, ScD	University of Akron	RPHB
Harry K. Slocum, PhD	Roswell Park Cancer Institute	ONC
Burton M. Slotnick, PhD	American University	IFCN
Greenfield Sluder, PhD	University of Massachusetts Medical School	CDF
Jeffrey B. Slunt, PhD	Biocache Pharmaceuticals, LLC	IDM
William S. Sly, MD	St. Louis University	BPC, CVS
Stephen T. Smale, PhD	University of California, Los Angeles	CDF

Pamela L. Small, PhD	University of Tennessee, Knoxville	GNS, IDM
Peter M. Small, MD	Bill and Melinda Gates Foundation	AARR
Susan L. Smalley, PhD	University of California, Los Angeles	GNS
Elisabeth Smela, PhD	University of Maryland, College Park	AARR, BCS
Mark S. Smeltzer, PhD	University of Arkansas	GNS
Richard J. Smeyne, PhD	St. Jude Children's Research Hospital	MDCN
Amos B. Smith, PhD	University of Pennsylvania	BPC
Anderson D. Smith, PhD	Georgia Institute of Technology	BBBP
Barbara D. Smith, PhD	Boston University School of Medicine	MSD
Brian H. Smith, PhD	Ohio State University	BBBP
C. Jeffrey Smith, PhD	East Carolina University	MSD
Charles D. Smith, PhD	Pennsylvania State University	ONC
Charles E. Smith, DDS, PhD	McGill University	MSD
David L. Smith, PhD	University of Nebraska, Lincoln	BPC
Derek J. Smith, PhD	Erasmus University Medical Center	IMM
Desmond J. Smith, MBBS, PhD	University of California, Los Angeles	MDCN
Douglas H. Smith, MD, PhD	Cellecenteronics	BDCN
Gary J. Smith, PhD	University of North Carolina, Chapel Hill	ONC
George M. Smith, PhD	University of Kentucky	BBBP, BDCN
Gerald R. Smith, PhD	Fred Hutchinson Cancer Research Center	IDM
Issar Smith, PhD	Public Health Research Institute	IDM
J. David Smith, PhD	State University of New York at Buffalo	BBBP
Jack W. Smith, MD, PhD	University of Texas at Houston	BPC
Jeffrey C. Smith, PhD	National Institute of Neurological Disorders and Stroke	IFCN
Justin P. Smith, MD	Confirma Inc	SRB
Kendall A. Smith, MD	Cornell Medical Center	PPS
Kenneth R. Smith, MD	St. Louis University	BDCN
Malcolm M. Smith, PhD	University of Virginia School of Medicine	GNS
Mark A. Smith, PhD	Case Western Reserve University	BDCN
Mark S. Smith, MD	University of Washington	MSD
Michael B. Smith, PhD	Pennsylvania State University Hershey Medical Center	SRB
Michael F. Smith, PhD	University of Virginia Health Sciences Center	IMM
Philip J. Smith, PhD	Ohio State University	SRB
Phillip R. Smith, MD, PhD	New York University School of Medicine	SRB
Quentin R. Smith, PhD	Texas Tech University Health Sciences Center	BDCN, CVS
R. Lane Smith, PhD	Stanford University School of Medicine	MSD
Robert G. Smith, PhD	University of Pennsylvania	MDCN
Roger O. Smith, PhD	University of Wisconsin, Milwaukee	MSD
Rosemary L. Smith, PhD	University of California, Davis	PPS
Sheryl S. Smith, PhD	State University of New York Downstate Medical Center	MDCN
Stanley H. Smith, PhD	Southern Illinois University	HOP
Stanley K. Smith, PhD	Southern Illinois University	HOP
Steven O. Smith, PhD	State University of New York at Stony Brook	BPC
Sylvia B. Smith, PhD	Medical College of Georgia	CDF
William Smith	Cleveland Clinic Foundation	SRB
William M. Smith, PhD	University of Alabama at Birmingham	CVS
Yoland Smith, PhD	Emory University	IFCN
Thomas E. Smithgall, PhD	University of Pittsburgh	ONC
Delia E. Smith-West, PhD	University of Arkansas For Medical Sciences	RPHB
Duane T. Smoot, MD	Howard University	PPS
Peter E. Smouse, PhD	Rutgers University	GNS
Susan S. Smyth, MD, PhD	University of North Carolina, Chapel Hill	CVS
Robert M. Snapka, PhD	Ohio State University	CDF
Betty J. Snell, PhD	University of Southern California	HOP
William J. Snell, PhD	University of Texas Southwestern Medical Center	CDF
Linda G. Snetselaar, PhD	University of Iowa	RPHB
Harold Snieder, PhD	Georgia Prevention Institute	HOP
Beverly M. Snively, PhD	Wake Forest University School of Medicine	GNS
E. Charles Snow, PhD	University of Kentucky	IMM, ONC
Charles T. Snowdon, PhD	University of Wisconsin	BBBP

Alan J. Snyder, PhD	Pennsylvania State University Hershey Medical Center	SRB
Brian D. Snyder, MD, PhD	Beth Israel Deaconess Medical Center	MSD
Edward L. Snyder, MD	Yale University School of Medicine	CVS, HEME
Evan Y. Snyder, MD	The Burnham Institute	MDCN
Michael P. Snyder, PhD	Yale University	BPC, GNS
Scott E. Snyder, PhD	University of Michigan Medical Center	ONC
Lynn Snyder-Mackler, ScD	University of Delaware	MSD
Peter T. So, PhD	Massachusetts Institute of Technology	CDF, ONC, SRB
Holly D. Soares, PhD	Pfizer Global Research and Development	CDF
Eric S. Sobel, MD, PhD	University of Florida	MSD
Bruno Sobral, PhD	Virginia Polytechnic Institute and State University	GNS
Sonya K. Sobrian, PhD	Howard University	BBBBP
Jaro Sodek, PhD	University of Toronto	MSD
Karl-Johan M. Soderholm, DDS, PhD	College of Dentistry, University of Florida	MSD
Rana N. Sodhi, PhD	University of Toronto	BPC, SRB
Gurkirpal S. Sohal, PhD	Medical College of Georgia	BDCN
Pamela A. Sokol, PhD	University of Calgary	IDM
Patricia M. Sokolove, PhD	University of Maryland School of Medicine	SRB
Bernd H. Sokolowski, PhD	University of South Florida	IFCN
Timothy D. Solberg, PhD	University of California, Los Angeles	ONC, SRB
Michael J. Solhaug, MD	Eastern Virginia Medical School	CVS
Peter N. Soliz, PhD	Kestrel Corporation	BDCN, HOP
Jay V. Solnick, MD, PhD	University of California, Davis	IDM
Edward I. Solomon, PhD	Stanford University	BPC
Nancy G. Solomon, PhD	Miami University	BBBBP
Mark J. Soloski, PhD	Johns Hopkins University	CVS
Hamid Soltanian-Zadeh, PhD	Case Western Reserve University, Henry Ford Health Services Center	SRB
Jin H. Son, PhD	Winifred Masterson Burke Medical Research Institute	MDCN
Gail E. Sonenshein, PhD	Boston University	IMM
Chang W. Song, PhD	University of Minnesota Medical School	ONC
Jinsup Song, PhD	Temple University	MSD
Thomas J. Songer, PhD	University of Pittsburgh	RPHB
Akshay Sood, MBBS, MD	Southern Illinois University School of Medicine	HOP
Steven A. Soper, PhD	Louisiana State University A&M College, Baton Rouge	GNS
Mohan L. Sopori, PhD	Lovelace Biomedical and Environmental Research	AARR
Kenneth J. Soprano, PhD	Temple University School of Medicine	ONC
Craig M. Sorensen	Vertex Pharmaceuticals, Inc	IMM
Gregory K. Sorensen, MD	Massachusetts General Hospital	SRB
Philippe M. Soriano, DSc, PhD	Fred Hutchinson Cancer Research Center	CDF
Linda S. Sorkin, PhD	American Pain Society	IFCN
Brian P. Sorrentino, MD, PhD	St. Jude Children's Research Hospital	CVS
Richard M. Sorrentino, PhD	University of Western Ontario	RPHB
Eric J. Sorscher, MD	University of Alabama at Birmingham	GNS
Hernando Sosa, PhD	Albert Einstein College of Medicine, Yeshiva University	BPC
Jeffrey A. Sosman, MD	Vanderbilt University	ONC
Tobin R. Sosnick, PhD	University of Chicago	BCS, BPC
Greg A. Sotzing, PhD	University of Connecticut	BPC
Robert Soufer, MD	Yale University	BBBBP
Nikolaos S. Soukos, DDS, PhD	Forsyth Institute	MSD
Rui J. Sousa, PhD	University of Texas	IDM
Michelle Southard-Smith, PhD	Vanderbilt University	BDCN
Elizabeth R. Sowell, PhD	University of California, Los Angeles	SRB
Lawrence C. Sowers, PhD	Loma Linda University	ONC
Donald M. Spaeth, PhD	VA Pitt Healthcare System	MSD
Caroline Sparks, PhD	George Washington University	BBBBP
David L. Sparks, PhD	Baylor College of Medicine	IFCN
Janet R. Sparrow, PhD	Columbia University	CDF
Sandi J. Spaulding, PhD	University of Western Ontario	MSD
Gregory T. Spear, PhD	Rush-Presbyterian-St. Luke's Medical Center	IMM
Robert C. Spear, PhD	University of California, Berkeley	CDF

Paul W. Spearman, MD	Vanderbilt University	AARR
Bonny L. Specker, PhD	South Dakota State University	MSD
Arthur A. Spector, MD	University of Iowa	BPC
Marcy C. Speer, PhD	Duke University Medical Center	BDCN
David W. Speicher, PhD	Wistar Institute	BCS, BPC
Forrest A. Spencer, PhD	Johns Hopkins University School of Medicine	CDF
Melissa J. Spencer, PhD	University of California, Los Angeles	MSD
Richard G. Spencer, MD, PhD	National Institute On Aging	MSD
Leonard D. Spicer, PhD	Duke University	BPC, ONC
Bruce M. Spiegelman, PhD	Dana-Farber Cancer Institute	NMS
Daniel Spieler, PhD	Georgia Institute of Technology	BBBP
Daniel M. Spielman, PhD	Stanford University	BDCN
Richard S. Spielman, PhD	University of Pennsylvania	GNS
Stuart Spielman, Jd	Cure Autism Now Mid-Atlantic	BBBP
Bernard F. Spielvogel, PhD	Boron Biologicals, Inc	ONC
William Spillman, PhD	Virginia Polytechnic Institute and State University	SRB
Francis G. Spinale, MD, PhD	Medical University of South Carolina	CVS, SRB
Eliot R. Spindel, MD, PhD	Oregon Health and Science University	ENR
Nancy B. Spinner, PhD	Children's Hospital of Philadelphia	GNS
Steven L. Spitalnik, MD	University of Rochester	BCS
Douglas R. Spitz, PhD	University of Iowa	ONC
Nicholas C. Spitzer, PhD	University of California, San Diego	MDCN
Victor M. Spitzer, PhD	University of Colorado Health Sciences Center at Fitzsimmons	SRB
John K. Spitznagel, DDS, PhD	University of Maryland Baltimore Professional School	MSD
Gary A. Splitter, DVM, PhD	University of Wisconsin, Madison	IMM
William D. Spotnitz, MD	University of Virginia Health Sciences Center	SRB
Jocelyn Spragg, PhD	Harvard University Medical School	CDF
George F. Sprague, PhD	University of Oregon	CDF
Stephen R. Sprang, PhD	University of Texas Southwestern Medical Center at Dallas	BCS
Stephen Sprigle, MD, PhD	Georgia Institute of Technology	MSD
Bonnie J. Spring, PhD	University of Illinois at Chicago	RPHB
Joe E. Springer, PhD	University of Kentucky Medical Center	BDCN
Richard A. Spritz, MD	University of Wisconsin	MSD
Shobha Sriharan, PhD	Virginia State University	IMM
Narasimhachar Srinivasakumar, MD, PhD	Vanderbilt University	AARR
Arun Srivastava, PhD	Indiana University-Purdue University, Indianapolis	GNS
D. K. Srivastava, PhD	North Dakota State University	BCS
Satish K. Srivastava, PhD	University of Texas Medical Branch at Galveston	BDCN
Edward F. Srouf, PhD	Indiana University School of Medicine	CDF
Richard W. St. Clair, PhD	Wake Forest University Health Sciences	CDF
Daret K. St. Clair, PhD	University of Kentucky	ONC
Herman F. Staats, PhD	University of North Carolina, Chapel Hill	IDM, IMM
Michael G. Stabin, PhD	Vanderbilt University	ONC
Mary Sharon Stack, PhD	Northwestern University Medical School	ONC
Mark A. Stacy, MD	St. Joseph's Hospital and Medical Center	MDCN
John Staczek, PhD	Louisiana State University Health Sciences Center	AARR, IDM
John E. Staddon, PhD	Duke University	BBBP
Carl E. Stafstrom, PhD	University of Wisconsin	BDCN
Gregory L. Stahl, PhD	Brigham and Women's Hospital	SRB
Stephen M. Stahl, MD, PhD	University of California, San Diego	BDCN
Lawrence H. Staib, PhD	Yale University School of Medicine	SRB
Apryll M. Stalcup, PhD	University of Cincinnati	BPC
Kevin J. Staley, MD	University of Colorado	BDCN, IFCN
Virginia A. Stallings, MD	Children's Hospital of Philadelphia	NMS
Lorann Stallones, PhD	Colorado State University	HOP
Leonidas Stamatatos, PhD	Seattle Biomedical Research Institute	AARR
Dwight Stambolian, MD, PhD	University of Pennsylvania	BDCN
W. D. Stamer, PhD	University of Arizona	BDCN
Lawrence R. Stanberry, MD, PhD	University of Texas Medical Branch at Galveston	AARR
Roger J. Stancliffe, PhD	Royal Rehabilitation Centre Sydney	BBBP

Edward J. Stanek, PhD	University of Massachusetts	HOP
Charles G. Stangor, PhD	University of Maryland	RPHB
Marian T. Stankovich, PhD	University of Minnesota	BPC
Bruce A. Stanley, PhD	Pennsylvania State University	BCS
Jeffrey W. Stansbury, PhD	University of Colorado Health Sciences Center	MSD
Bruce A. Stanton, PhD	Dartmouth College	MSD
Mark E. Stanton, PhD	University of Delaware	BBBP
Ann E. Stapleton, MD	University of Washington	MSD
Ruth E. Stark, PhD	City University of New York	BPC
Michael N. Starnbach, PhD	Harvard University Medical School	GNS, IDM
Philip P. Stashenko, DMD, PhD	Harvard University Medical School	MSD
Garold L. Stasser	Miami University of Ohio	RPHB
David J. States, MD, PhD	University of Michigan at Ann Arbor	BPC
Cynthia V. Stauffacher, PhD	Purdue University, West Lafayette	BPC
Paul Stauffer	University of California, San Francisco	SRB
William W. Stead, MD	Vanderbilt University	MDCN
Hansell H. Stedman, MD	Hospital of The University of Pennsylvania	GNS, MSD
Kathy Steece-Collier, PhD	Rush-Presbyterian-St. Luke's Medical Center	BDCN
Deborah A. Steege, PhD	Duke University Medical Center	IDM
Clifford J. Steer, MD	University of Minnesota, Twin Cities	BCS, PPS
Michael L. Steer, MD	New England Medical Center Hospitals	PPS
Darren J. Stefanyshyn, PhD	University of Calgary	MSD
David C. Steffens, MD	Duke University	BBBP, HOP
Bjorn Steffensen, DDS, PhD	University of Texas Health Science Center at San Antonio	MSD
Michael W. Steffes, MD, PhD	University of Minnesota	MSD
Lisa A. Stehno-Bittel, PhD	University of Kansas Medical Center	CDF
Charles M. Stein, MD	Vanderbilt University	CVS
Karen F. Stein, PhD	University of Michigan	HOP
Paul S. Stein, PhD	Washington University	IFCN
Thomas Peter Stein, PhD	University of Medicine and Dentistry of New Jersey School of Osteopathic Medicine	MSD
Joseph H. Steinbach, MD, PhD	Washington University	MDCN
Dennis A. Steindler, PhD	University of Florida	BDCN
Lisa A. Steiner, MD	Massachusetts Institute of Technology	IMM
Robert A. Steiner, PhD	University of Washington School of Medicine	ENR
Ronald J. Steingard, MD	University of Massachusetts Medical School	MSD
David A. Steinhauer, PhD	Emory University	IDM
Stuart Steinhauer, PhD	University of Pittsburgh School of Medicine	BDCN
Robin H. Steinhorn, MD	Northwestern University	PPS
Ralph M. Steinman, MD	The Rockefeller University	IMM
Joseph E. Steinmetz, PhD	Indiana University	BBBP
Joan A. Steitz, PhD	Yale University School of Medicine	CDF
Jeffery D. Steketee, PhD	University of Tennessee Health Science Center	IFCN
Julie A. Stenken, PhD	Rensselaer Polytechnic Institute	IDM
Kurt R. Stenmark, MD	University of Colorado Health Sciences Center	ENR
William F. Stenson, MD	Washington University	PPS
Mary P. Stenzel-Poore, PhD	Virogenomics, Inc	IFCN
Gregory N. Stephanopoulos, PhD	Massachusetts Institute of Technology	ONC
Edward Brice Stephens, PhD	University of Kansas Medical Center	AARR
Jacqueline M. Stephens, PhD	Louisiana State University A&M College, Baton Rouge	NMS
Newman L. Stephens, MD	University of Manitoba	MSD
Richard S. Stephens, PhD	University of California, Berkeley	IDM
Charles B. Stephensen, PhD	University of California, Davis	AARR, ENR
Mary Ann Stepp, PhD	George Washington University	MSD
Michael J. Stern, PhD	Rice University	MDCN
Robert Stern, MD, PhD	University of California, San Francisco	ONC
Paul W. Sternberg, MD	Vanderbilt University	BCS, CDF, IFCN
Linda D. Stetzenbach, PhD	University of Nevada, Las Vegas	IDM
Alasdair C. Steven, PhD	National Institutes of Health	BPC
Alexander A. Stevens, MD, PhD	Oregon Health and Science University	IFCN

Fred J. Stevens, PhD	Argonne National Laboratory	MSD
Karen E. Stevens, MD, PhD	University of Colorado	BDCN, IFCN
Rick Stevens, PhD	Argonne National Laboratory	MDCN
Stacey Stevens, PhD	Texas Commission On Alcohol and Drug Abuse	RPHB
Tom H. Stevens, PhD	University of Oregon	CDF
Freda K. Stevenson, PhD	Tenovus Laboratory	IMM
Mario Stevenson, PhD	University of Massachusetts Medical School, Worcester	AARR
Barbara J. Stewart, PhD	Oregon Health and Science University	HOP
Caro-Beth R. Stewart, PhD	State University of New York at Albany	GNS
Gregory J. Stewart, PhD	United States Department of State	IDM
Julian M. Stewart, MD, PhD	New York Medical College	MSD
Kerry J. Stewart, Edd, PhD	Johns Hopkins University, Bayview Medical Center	HOP
Eric M. Stice, PhD	Oregon Research Institute	BBBP, RPHB
Roger W. Stich, PhD	Ohio State University	IDM
Cynthia A. Stifter, PhD	Pennsylvania State University	BBBP, RPHB
Joel R. Stiles, MD, PhD	Carnegie Mellon University	BPC, MDCN
David J. Stillman, PhD	University of Utah Medical Center	GNS, IDM
Julie B. Stimmel, PhD	GlaxoSmithKline, Inc	IMM
Audra L. Stinchcomb, PhD	Yaupon Therapeutics, Inc	BPC, MDCN
Elizabeth A. Stine-Morrow, PhD	University of Illinois at Urbana-Champaign	BBBP
Barbara L. Stitt, PhD	Temple University	IDM
Jerry A. Stitzel, PhD	University of Michigan Medical Center	MDCN
Maxine L. Stitzer, PhD	Johns Hopkins University School of Medicine	RPHB
James T. Stivers, PhD	Johns Hopkins University School of Medicine	BPC
Ann M. Stock, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	IDM
Peter G. Stock, MD, PhD	University of California, San Francisco	AARR
James D. Stockand, PhD	University of Texas Health Science Center at San Antonio	MSD
Frank E. Stockdale, MD, PhD	Stanford University School of Medicine	MSD
David W. Stockton, MD	Baylor College of Medicine	CDF
Barry L. Stoddard, PhD	Fred Hutchinson Cancer Research Center	BPC
Markus Stoffel, MD, PhD	The Rockefeller University	NMS
Victor Stollar, MD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	IDM
Arthur A. Stone, PhD	State University of New York	RPHB
Eric A. Stone, PhD	New York University	IFCN
Jeff A. Stone, PhD	University of Arizona	RPHB
Martin J. Stone, PhD	Indiana University, Bloomington	BPC
Phillip J. Stone, PhD	Boston University School of Medicine	MSD
Paul Stoodley, PhD	Montana State University, Bozeman	IDM
George K. Stookey, PhD	Therametric Technologies, Inc	MSD
Barry E. Storer, PhD	Fred Hutchinson Cancer Research Center	ONC
Walter J. Storkus, MD, PhD	University of Pittsburgh	IMM, ONC
Gary D. Stormo, PhD	Washington University	GNS
Fredrick Stormshak, PhD	Society For The Study of Reproduction	ENR
Brian Storrie, PhD	University of Arkansas For Medical Sciences	CDF
Gisela Storz	National Institute of Child Health and Human Development	IDM
Michael A. Stoto, PhD	National Academy of Sciences	HOP
Terry Stouch, PhD	Bristol-Myers Squibb Pharmaceutical	BPC
Julie C. Stout, PhD	Indiana University	BBBP
Zachary N. Stowe, MD	Emory University	BDCN
Jean C. Strahlendorf, PhD	Texas Tech University Health Sciences Center	BDCN
Richard C. Straight, PhD	University of Utah	SRB
Michael R. Strand, PhD	University of Georgia	IDM
Kevin Strange, PhD	Vanderbilt University	MSD
Steven M. Strasberg, MD	Washington University	PPS
Steffanie A. Strathdee, PhD	Johns Hopkins University	AARR
Robert M. Straubinger, PhD	State University of New York at Buffalo	CVS
Timothy J. Strauman, PhD	Duke University	RPHB
Donald Straus, PhD	Genomic Profiling Systems	IDM
Bernard S. Strauss, DRPH, MD	University of Chicago	ONC
James H. Strauss, PhD	California Institute of Technology	IDM

Phyllis R. Strauss, PhD	Northeastern University	ONC
David S. Strayer, MD, PhD	Thomas Jefferson University	BCS
Gregory Strayhorn, MD, PhD	Morehouse School of Medicine	IDM
Donald Stredney,	Ohio State University	MDCN
Wolfgang J. Streit, PhD	University of Florida College of Medicine	BDCN
Lisa I. Strelow, PhD	Oregon Health and Science University	AARR
Gary R. Strichartz, PhD	Brigham and Women's Hospital	IFCN
Dorothy C. Strickland, PhD	Virtual Reality Aids, Inc	BBBB
Dudley K. Strickland, PhD	American National Red Cross	IMM, HEME
Faith M. Strickland, PhD	Case Western Reserve University, Henry Ford Health Services Center	ONC
Ora Lea Strickland, PhD	Emory University	HOP
George P. Stricklin, MD, PhD	Vanderbilt University	MSD
Boris Striepen, PhD	University of Georgia	AARR
Warren J. Strittmatter, MD	Baylor College of Medicine	BDCN
Louis H. Strong, PhD	Radiation Monitoring Devices, Inc	IFCN
Roland K. Strong, PhD	Fred Hutchinson Cancer Research Center	IMM
Robert M. Strongin, PhD	Louisiana State University A&M College, Baton Rouge	BPC
Jeffrey K. Stross, MD	University of Michigan	HOP
Stephen C. Strother, PhD	University of Minnesota	MDCN
Diane Stroup, PhD	Kent State University	CVS
Robert F. Struck, PhD	Southern Research Institute	ONC
Michael P. Stryker, PhD	University of California, San Francisco	IFCN
Jeffrey J. Stuart, PhD	Purdue University, West Lafayette	IDM
James B. Stubbs, PhD	Proxima Therapeutics, Inc	ONC
Lisa J. Stubbs, PhD	University of California	GNS
Margaret L. Stuber, MD	University of California, Los Angeles School of Medicine	RPHB
Stephanie A. Studenski, MD	University of Pittsburgh	MSD
F. William Studier, PhD	Brookhaven National Laboratory	BPC
Karla Stuebing, PhD	FSD Data Services, Inc	HOP
Elizabeth Stullenbarger, DNSc,	University of Central Florida	HOP
Joy E. Sturtevant, PhD	Louisiana State University Health Sciences Center, New Orleans	AARR
Lishan Su, PhD	University of North Carolina	AARR
Min-Ying L. Su, PhD	University of California	SRB
Edward C. Suarez, PhD	Duke University Medical Center	BBBB
Carlos Suarez-Quian, PhD	Georgetown University Medical Center	CDF
Shankar Subramaniam, MBBS, PhD	University of California, San Diego	BPC, GNS
Sriram Subramaniam, PhD	National Institutes of Health	CDF, MDCN
Manny R. Subramanian, PhD	Best Medical International, Inc	ONC
Frederick J. Suchy, MD	Mount Sinai School of Medicine	PPS
Tirumalai Sudarshan, PhD	Materials Modification Incorporated	MSD
Vicki Sudhalter, PhD	Institute For Basic Research In Developmental Disabilities	BBBB
Thomas C. Sudhof, MD	Howard Hughes Medical Institute	MDCN
Alan Sugar, MD	University of Michigan School of Medicine	SRB
Kiminobu Sugaya, PhD	Newneural, LLC	MDCN
Stephen P. Sugrue, PhD	University of Florida	BDCN
Cleide Y. Suguihara, MD	University of Miami School of Medicine	SRB
Jill J. Suito, PhD	Louisiana State University A&M College, Baton Rouge	RPHB
Bela Suki, PhD	Boston University, Charles River Campus	MSD
Predrag Sukovic, PhD	Xoran Technologies, Inc	MSD
Hei S. Sul, PhD	University of California	BCS, ONC
Alexander Sulakvelidze, PhD	University of Maryland Baltimore Professional School	IDM
Daniel M. Sullivan, MD, PhD	University of South Florida	ONC
David J. Sullivan, MD	Johns Hopkins University	IDM
Edith V. Sullivan, PhD	Stanford University	BDCN
John T. Sullivan, MB, MD	University of San Francisco	IDM
Patrick F. Sullivan, MD	University of North Carolina, Chapel Hill	BDCN
Sean M. Sullivan, PhD	University of Florida	AARR, GNS, ONC
Jerry M. Suls, PhD	University of Iowa	RPHB
David L. Sulzer, PhD	Columbia University	BDCN
Michael F. Summers, PhD	Keystone Symposia	AARR

Fengzhu Sun, PhD	University of Southern California	HOP
Luzhe Sun, PhD	University of Texas Health Science Center at San Antonio	ONC
Peter D. Sun, PhD	National Institute of Allergy and Infectious Diseases	CDF
Ren Sun, PhD	University of California, Los Angeles	AARR
Shumei S. Sun, PhD	Wright State University	HOP
Hakan W. Sundell, MD	Vanderbilt University	ENR
Olof H. Sundin, PhD	Johns Hopkins University	BDCN
Wesley I. Sundquist, PhD	University of Utah	AARR
Paula Sundstrom, PhD	Dartmouth College	AARR
Patrick M. Sung, PhD,	Yale University	ONC
Richard Superfine, PhD	University of North Carolina, Chapel Hill	SRB
Gerald S. Supinski, MD	Medical College of Georgia	MSD
Mriganka Sur, PhD	Massachusetts Institute of Technology	BDCN
Michael G. Surette, PhD	University of Calgary	BPC
Elizabeth J. Susman, PhD	Pennsylvania State University, University Park	RPHB
Ezra S. Susser, DPH	Columbia University Health Science Center	HOP
Mark A. Sussman, PhD	San Diego State University	AARR, CVS
James S. Sutcliffe, PhD	Vanderbilt University Medical Center	BDCN
Margaret L. Sutherland, PhD	George Washington University	BDCN, MDCN
William W. Sutherland, MD	Huntington Medical Research Institutes	BDCN, SRB
Roderick Suthers, PhD	Indiana University	IFCN
Mark D. Sutton, PhD	State University of New York at Buffalo	IDM
Richard Sutton, MD, PhD	Baylor College of Medicine	AARR
Craig K. Svensson, PhD	University of Iowa	CVS
Karel Svoboda, PhD	Cold Spring Harbor Laboratory	MDCN
Kathy K. Svoboda, PhD	Baylor College of Dentistry	CDF
Randall C. Swaim, PhD	Colorado State University	RPHB
Amy L. Swain, PhD	National Center For Research Resources	CDF
Karen C. Swallen, PhD	University of Wisconsin, Madison	HOP
Sankar Swaminathan, MD	University of Florida	AARR
Pamela D. Swan, PhD	Arizona State University	RPHB
Robert H. Swanborg, PhD	Wayne State University	BDCN
John W. Swann, PhD	Baylor College of Medicine	BDCN
David A. Swanson, PhD	Mikkeli Business Campus	HOP
Joel A. Swanson, PhD	University of Michigan at Ann Arbor	BPC
Michele S. Swanson, PhD	University of Michigan at Ann Arbor	IDM
Anand Swaroop, PhD	University of Michigan at Ann Arbor	CDF
Jonathan V. Sweedler, PhD	University of Illinois at Urbana-Champaign	ONC
H. L. Sweeney, DDS, PhD	University of Pennsylvania	MSD
James A. Sweet, PhD	University of Wisconsin	HOP
Janet K. Swim, PhD	Pennsylvania State University	RPHB
Susan Swindells, MB, MD	University of Nebraska	AARR
Steven J. Swoap, PhD	Williams College	MSD
Susan C. Sylvia, PhD	St. Louis Children's Hospital	RPHB
Lorraine S. Symington, PhD	Columbia University College of Physicians and Surgeons	ONC
Laura L. Symonds, PhD	Michigan State University	MSD
Frank J. Symons, PhD	University of Minnesota	BBBP
Csaba Szabo, DSc	Inotek Pharmaceuticals Corporation	MSD
Gabor Szabo, PhD	University of Virginia	BCS
Gyongyi Szabo, MD, PhD	University of Massachusetts Medical School, Worcester	AARR, PPS
Alexander J. Szalai, PhD	University of Alabama at Birmingham	MSD
Peter Szatmari, MD	McMaster University	BBBP
Henryk Szmajnski, PhD	Microcosm, Inc	GNS
Ronald Szymusiak, PhD	Sepulveda Research Corporation	IFCN
Shlomo Ta'asan, PhD	Carnegie Mellon University	IMM
Douglass F. Taber, PhD	University of Delaware	BPC
Larry A. Taber, PhD	Washington University	MDCN
Fern Tablin, DVM, PhD	University of California, Davis	PPS
Bruno Taccardi, MD, PhD	University of Utah	CVS
Douglas K. Tadaki, PhD	Henry M. Jackson Foundation For The Advancement of Military Medicine	PPS

George E. Taffet, MD	Baylor College of Medicine	MSD
Ira B. Tager, MD	University of California, Berkeley	HOP
Paul H. Taghert, PhD	Washington University	IFCN
Taha E. Taha, MD, PhD	Johns Hopkins University	BBBP, CDF
James M. Takacs, PhD	University of Nebraska, Lincoln	BPC
Dolores J. Takemoto, DO, MD	Kansas State University	BDCN
Gregory A. Talavera, MD, PhD	San Diego State University	HOP
William S. Talbot, PhD	Stanford University	CDF
Deborah F. Talkington, PhD	National Center For Infectious Diseases	IDM
Melanie K. Tallent, PhD	Hahnemann University	MDCN
Lukas K. Tamm, PhD	University of Virginia	BPC
Elaine M.-L. Tan, PhD	Children's Hospital of Philadelphia	SRB
Man-Wah Tan, PhD	Stanford University	IDM
Ming Tan, MD, PhD	University of California, Irvine	IDM
Ming T. Tan, MD, PhD	University of Maryland Baltimore Professional School	MSD, ONC
Tse-Hua Tan, PhD	Baylor College of Medicine	ONC
Weihong Tan, PhD	University of Florida	BPC, GNS
Emil A. Tanagho, MD	University of California, San Francisco	MSD
Pushpa Tandon, PhD	Children's Hospital, Boston	BDCN
Michael K. Tanenhaus, PhD	University of Rochester	BBBP
Careen K. Tang, PhD	Georgetown University	ONC
Wei-Jen Tang, PhD	University of Chicago	IDM
Yi-Wei Tang, MD, PhD	Vanderbilt University	AARR
June P. Tangney, PhD	George Mason University	BBBP, HOP, RPHB
Robert L. Tanguay, PhD	Oregon State University	CVS
Steven R. Tannenbaum, PhD	Massachusetts Institute of Technology	ONC
Bradley Tanner, MD	Clinical Tools, Inc	BBBP
Caroline M. Tanner, MD, PhD	Parkinson's Institute	HOP
Ruth M. Tappen, Edd	Florida Atlantic University	HOP
Christine Tarby, PhD	Dupont Pharmaceuticals Company	BPC
Twila Tardif, PhD	University of Michigan at Ann Arbor	BBBP
Douglas L. Taren, PhD	University of Arizona	HOP
Stephan R. Targan, MD	Cedars-Sinai Medical Center	PPS
Joan B. Tarloff, PhD	University of The Sciences In Philadelphia	BPC
Kelly G. Tatchell, PhD	Louisiana State University	CDF
Thomas A. Taton, PhD	University of Minnesota, Twin Cities	BPC
Mary L. Taub, PhD	State University of New York at Buffalo	MSD
Martin A. Taubman, DDS, PhD	Forsyth Institute	AARR
Saeed F. Tavazoie, PhD	Princeton University	BPC, GNS
Andrew J. Taylor, PhD	Hebrew Rehabilitation Center For Aged	BBBP
Barbara J. Taylor, PhD	Oregon State University	BBBP, MDCN
C. Barr Taylor, MD	Stanford University	RPHB
Diane W. Taylor, PhD	Georgetown University	IDM
H. Gerry Taylor, PhD	Case Western Reserve University	BBBP
Jane R. Taylor, PhD	Yale University	BBBP, IFCN, RPHB
Jeremy M. Taylor, PhD	University of Michigan Comprehensive Cancer Center	MDCN
Kathryn L. Taylor, PhD	Georgetown University	HOP
Kenneth A. Taylor, PhD	Gordon Research Conferences	BPC
Richard E. Taylor, PhD	University of Notre Dame	BPC
Robert J. Taylor, PhD	University of Michigan at Ann Arbor	RPHB
Ronald K. Taylor, PhD	Dartmouth College	IDM
Russell H. Taylor, PhD	Johns Hopkins University	MDCN, SRB
Susan S. Taylor, PhD	University of California, San Diego	NMS
Milton Teitler, PhD	Albany Medical College	BDCN, IFCN
Rajeshwar Rao Tekmal, PhD	University of Texas Health Science Center at San Antonio	ENR
Michael J. Telch, PhD	University of Texas at Austin	BBBP
Alice P. Telesnitsky, PhD	University of Michigan at Ann Arbor	AARR
Glenn C. Telling, PhD	University of Kentucky	BDCN
Clare M. Tempany, MB, MD	Brigham and Women's Hospital	SRB
Bruce L. Tempel, PhD	University of Washington School of Medicine	IFCN

Sally Temple, PhD	Albany Medical College	BDCN, MDCN
Lynn F. Ten Eyck, PhD	University of California, San Diego	MDCN
Frank Tendick, PhD	University of California, Berkeley	SRB
Tammy O. Tengs, DSc, ScD	University of California, Irvine	AARR
Martin P. Tenniswood, PhD	University of Notre Dame	ONC
Joyce S. Tenover, MD, PhD	Emory University	MSD
Beverly Tepper, PhD	Cook College	RPHB
James M. Tepper, PhD	Rutgers University	IFCN
Ronald L. Terjung, PhD	University of Missouri, Columbia	PPS
David H. Terman, PhD	Ohio State University	IFCN
James Terner, PhD	Virginia Commonwealth University	BCS
Louis B. Terracio, PhD	New York University School of Medicine	CVS, HEME
Michael L. Terrin, MD	Maryland Medical Research Institute, Inc	HOP
Mary B. Terry, PhD	Columbia University	HOP
Vernon L. Tesh, PhD	Texas A&M University	IDM
Maria L. Testa, PhD	State University of New York at Buffalo	RPHB
Herves' Tettelin, PhD	Institute For Genomic Research	GNS
Cory Teuscher, PhD	University of Vermont and State Agricultural College	BDCN, IDM, IMM
John Texter, PhD	Eastern Michigan University	BPC
Timothy J. Teyler, PhD	University of Idaho	BDCN
Gunvant K. Thaker, MD	University of Maryland	BDCN
Nitish V. Thakor, PhD	Johns Hopkins University	AARR, BCS, CVS
David G. Thanassi, PhD	State University of New York at Stony Brook	IDM
Yasmin Thanavala, PhD	Roswell Park Cancer Institute	PPS
Anjali Thapar, PhD	Williams College	BBBP
Julian F. Thayer, PhD	National Institute On Aging	CVS
Mathew J. Thayer, PhD	Oregon Health and Science University	MSD, ONC
Stanley A. Thayer, PhD	University of Minnesota, Twin Cities	MDCN
Sankaran Thyumanavan, PhD	University of Massachusetts, Amherst	SRB
Daniel Thedens, PhD	University of Iowa	SRB
Anne B. Theibert, PhD	University of Alabama at Birmingham	MDCN
Neil D. Theise, MD	Beth Israel Medical Center (New York)	HOP
Darryl G. Thelen, PhD	Hope College	MSD
Esther Thelen, PhD	Indiana University	BBBP
Theoharis C. Theoharides, MD, PhD	Tufts University School of Medicine	MSD
Perumal Thiagarajan, MD	Baylor College of Medicine	CVS
Pierre Thibault, PhD	Caprion Pharmaceuticals	BPC
Diane M. Thiboutot, MD	Pennsylvania State University	MSD
Dennis J. Thiele, PhD	University of Michigan at Ann Arbor	CDF
Gopal Thinakaran, PhD	University of Chicago	MDCN
Devarajan Thirumalai, PhD	University of Maryland, College Park	BPC
P. Thiyagarajan, PhD	Argonne National Laboratory	BPC
Peggy A. Thoits, PhD	Vanderbilt University	RPHB
Albert M. Thomas, PhD	University of California, Los Angeles	BDCN
Alvin V. Thomas, MD	Howard University	PPS
Barbara J. Thomas, PhD	National Cancer Institute	CDF
D. Denee Thomas, PhD	University of Texas Health Science Center at San Antonio	MSD
David L. Thomas, DPH, MD	Johns Hopkins University	AARR
Duncan Thomas, PhD	University of California, Los Angeles	RPHB
Karen A. Thomas, PhD	University of Washington	HOP
Michael A. Thomas, PhD	University of California, Los Angeles	BDCN
Peter Thomas, PhD	Boston University School of Medicine	PPS
W. Kelley Thomas, PhD	University of New Hampshire	GNS
Dennis L. Thombs, PhD	Kent State University	RPHB
Kai E. Thomenius, PhD	General Electric	CDF, SRB
Al Thompson, PhD	Lawrence Berkeley National Laboratory	BPC
Charles P. Thompson, PhD	Kansas State University	BBBP
David H. Thompson, PhD	Janus Biosystems, Inc	SRB
Elizabeth A. Thompson, PhD, ScD	University of Washington	GNS
Joel K. Thompson, PhD	University of South Florida	RPHB

Ladora V. Thompson, PhD	University of Minnesota	MSD
Lee A. Thompson, PhD	Case Western Reserve University	HOP
Marilyn E. Thompson, PhD	Meharry Medical College	IDM
Nancy E. Thompson, PhD	Rhode Island Hospital (Providence, RI)	NMS
Nancy L. Thompson, PhD	Rhode Island Hospital (Providence, RI)	ONC
Patrick Thompson, Edd	Vanderbilt University	BBBP
Paul M. Thompson, PhD	University of California, Los Angeles	IFCN, SRB
Ross A. Thompson, PhD	University of Nebraska, Lincoln	RPHB
Scott M. Thompson, PhD	University of Maryland	MDCN
Stuart A. Thompson, PhD	Medical College of Georgia	IDM
Sue A. Thompson, PhD	University of Iowa College of Medicine	MSD
Elizabeth J. Thomson, PhD	University of Wisconsin, Madison	HOP
Scott Thomson, MD, PhD	University of California, San Diego	MSD
Ann D. Thor, MD	University of Oklahoma Health Sciences Center	ONC
Terence P. Thornberry, PhD	State University of New York	RPHB
Kent L. Thornburg, PhD	Oregon Health and Science University	ENR
Kevin J. Thorne, PhD	Centerpulse Biologics Inc	MSD
Jeremy W. Thorner, PhD	University of California, Berkeley	CDF, IDM
H. Holden Thorp, PhD	University of North Carolina	GNS
Jon S. Thorson, PhD	University of Wisconsin	BPC
David W. Threadgill, PhD	University of North Carolina, Chapel Hill	GNS
Pamela A. Thuman-Commike, PhD	QED Labs	SRB
Kenneth E. Thummel, PhD	University of Washington	CVS
Ning Tian, MD, PhD	Yale University	CDF
Rob Tibshirani, PhD	Stanford University	MDCN
Dianne M. Tice, PhD	Case Western Reserve University	RPHB
James G. Tidball, PhD	University of California, Los Angeles	MSD
Allen Y. Tien, MD	American Academy of Pediatrics, Maryland Chapter	AARR
Evelyn Tiffany-Castiglioni, PhD	Texas A&M University	HOP
Robert E. Tigelaar, MD, PhD	Yale University School of Medicine	IMM
Martin D. Tilson, MD	St. Luke's-Roosevelt Institute For Health Sciences	HOP
Laura T. Timares, PhD	University of Alabama at Birmingham	IMM
William D. Timberlake, PhD	Indiana University	BBBP
Aaron T. Timperman, PhD	West Virginia University	BCS
Scott Tindale, PhD	Loyola University of Chicago	RPHB
Mary E. Tinetti, MD	Yale University School of Medicine	RPHB
Jenny P. Ting, MD, PhD	University of North Carolina	IMM
Marjorie Tingle	National Center For Research Resources	IMM
Margaret Tipple, MD	Virginia Department of Health	HOP
Margaret A. Titus, PhD	University of Minnesota	CDF
Hemant K. Tiwari, PhD	University of Ohio	HOP
Ronald B. Tjalkens, PhD	Texas A&M University System	IFCN
Robert Tjian, PhD	University of California	CDF
Peter S. Tobias, PhD	Scripps Research Institute	BPC
David P. Toczyski, PhD	University of California, San Francisco	ONC
Peter J. Todd, PhD	Oak Ridge National Laboratory	BCS
Galen B. Toews, MD	University of Michigan at Ann Arbor	PPS
Arthur W. Toga, PhD	University of California, Los Angeles	BPC, MDCN, SRB
Stewart E. Tolnay, PhD	University of Washington	HOP
Kenneth Tomer, PhD	National Institute of Environmental Health Sciences	BPC
Alan E. Tomkinson, PhD	University of Maryland Baltimore Professional School	ONC
Robert D. Tomlinson, PhD	University of Toronto	IFCN
Ronald G. Tompkins, MD, ScD	Massachusetts General Hospital	PPS
Antoni P. Tomsia, PhD	Lawrence Berkeley National Laboratory	MSD
David A. Tong, PhD	Southwest Research Institute	SRB
Rosemarie Tong, PhD	University of North Carolina, Charlotte	HOP
William G. Tong, PhD	San Diego State University	BPC, SRB
Giulio Tononi, MD, PhD	University of Wisconsin, Madison	IFCN
James F. Toole, MD	Wake Forest University Health Sciences	MSD
Traci L. Toomey, PhD	University of Minnesota, Twin Cities	HOP

Roger B. Tootell, PhD	Massachusetts General Hospital	IFCN
David J. Topham, PhD	University of Rochester Medical Center	IMM
Elizabeth M. Topp, PhD	University of Kansas	BPC
Robert Topp, PhD	Medical College of Ohio at Toledo	HOP
Yitzhak Tor, PhD	University of California, San Diego	BPC
Bruce E. Torbett, PhD	Scripps Research Institute	CVS
Vladimir P. Torchilin, DSc	Northeastern University	BCS, IDM
Lucia V. Torian, PhD	New York City Department of Health	AARR
Carol B. Toris, PhD	University of Nebraska Medical Center	BDCN
Beverly J. Torok-Storb, PhD	Fred Hutchinson Cancer Research Center	CDF
Paul F. Torrence, PhD	Northern Arizona University	MSD
Sara Torres, PhD	University of North Carolina	HOP
Nancy I. Totah, PhD	Syracuse University	BPC
Linda A. Toth, DVM, PhD	Southern Illinois University	MSD
Sheree Toth, PhD	University of Rochester	RPHB
Patricia A. Totten, PhD	University of Washington	IDM
Dwight A. Towler, MD, PhD	Barnes-Jewish Hospital	NMS
David W. Townsend, PhD	University of Tennessee, Knoxville	SRB
Kathryn B. Tracy, DRPH, PhD	University of Massachusetts, Amherst	RPHB
Russell P. Tracy, PhD	University of Vermont and State Agricultural College	CVS
Gregg E. Trahey, PhD	Duke University	CDF, SRB
Chieu D. Tran, PhD	Marquette University	BPC
Zung V. Tran, PhD	National Jewish Medical and Research Center	HOP
Robert T. Tranquillo, PhD	University of Minnesota	MSD
Edward J. Trapido, PhD, ScD	National Cancer Institute	HOP
Linton M. Traub, PhD	University of Pittsburgh	CDF
Richard J. Traub, PhD	University of Maryland Dental School	MSD
Alberto R. Travagli, PhD	University of Michigan at Ann Arbor	IFCN
Renato A. Travagli, PhD	University of Michigan at Ann Arbor	PPS
Jeffrey B. Travers, MD, PhD	Indiana University School of Medicine	MSD
Susan P. Travers, PhD	Gordon Research Conferences	IFCN
Stephen F. Traynelis, PhD	Vanderbilt University	MDCN
Marsha J. Treadwell, PhD	Children's Hospital and Research Center at Oakland	RPHB
John J. Treanor, MD	University of Rochester	AARR
Frank A. Treiber, PhD	Medical College of Georgia	CVS
Steven N. Treistman, PhD	University of Massachusetts Medical School, Worcester	IFCN
Leonard J. Trejo, PhD	Ames Research Center	MDCN
Patrick A. Tresco, PhD	University of Utah	MDCN, MSD
Roberto P. Trevino, MD, PhD	Social and Health Research Center	BBBP
Maurizio M. Trevisan, MD	State University of New York at Buffalo	HOP
Timothy J. Triche, MD, PhD	Children's Hospital Los Angeles	ONC
Joseph E. Trimble, PhD	Western Washington University	RPHB
Vickery E. Trinkaus-Randall, MD, PhD	Boston University School of Medicine	MSD
Karen F. Trocki, PhD	California Research and Analysis	AARR
Catherine L. Troisi, PhD	University of Texas Health Science Center	HOP
Maria Trojanowska, PhD	Medical University of South Carolina	IMM
Alexander E. Tropsha, PhD	University of North Carolina, Chapel Hill	BPC, CVS
Robert T. Trotter, PhD	Northern Arizona University	AARR, HOP
Carol M. Troy, MD, PhD	Columbia University College of Physicians and Surgeons	MDCN
Mark L. Trudell, PhD	University of New Orleans	MDCN
John C. Trueswell, PhD	University of Pennsylvania	BBBP
Robert L. Truitt, PhD	Medical College of Wisconsin	ONC
Susan L. Trumbetta, PhD	University of Louisville	HOP
Donald L. Trump, MD	Roswell Park Cancer Institute	ONC
Dennis R. Trune, PhD	Oregon Health and Science University	HOP
George A. Truskey, PhD	Duke University	CVS, PPS, MSD
Han Mou Tsai, MD	Montefiore Medical Center	HEME
Ming-Jer Tsai, PhD	Baylor College of Medicine	NMS
Pamela S. Tsang, PhD	Wright State University	RPHB
Christian Tschudi, PhD	Yale University School of Medicine	IDM

Yuk-Ching Tse-Dinh, PhD	New York Medical College	IDM
Scheffer C. Tseng, MD, PhD	Tissuetech, Inc	BDCN
Philip N. Tsichlis, MD, PhD	New England Medical Center Hospitals	ONC
Patrick P. Tso, PhD	University of Cincinnati Medical Center	PPS, ENR
Janice Y. Tsoh, PhD	University of California, San Francisco	RPHB
George C. Tsokos, DSc, MD	Clinical Immunology Society	BPC
Renee M. Tsois, PhD	Texas A&M University Health Science Center	IDM
Panagiotis A. Tsonis, PhD	University of Dayton	BDCN
Shigeru Tsuboi, PhD	Burnham Institute	CVS
Akira Tsuda, PhD	Harvard University School of Public Health	PPS
Amy O. Tsui, PhD	Johns Hopkins University	HOP
Benjamin M.W. Tsui, PhD	Johns Hopkins University	SRB
Moriya Tsuji, MD, PhD	Aaron Diamond Aids Research Center	AARR
Hirotsugu Tsuruta, PhD	Stanford University	BPC
Zhijian Tu, PhD	Virginia Tech	IDM
Jonathan G. Tubman, PhD	Florida International University	RPHB
Mendel Tuchman, MD	Children's Research Institute	GNS
Timothy Tully, PhD	Cold Spring Harbor Laboratory	MDCN
Orhan C. Tuncay, DMD, PhD	Temple University	MSD
Kenneth S. Tung, MD	University of Virginia Health System	IMM
Leslie Tung, PhD	Synthecon, Inc	CVS, PPS
Fred W. Turek, PhD	Northwestern University	IFCN
Bruce I. Turetsky, MD	University of Pennsylvania	BDCN
Gerard M. Turino, MD	Columbia University	HOP
Vincent T. Turitto, DSc, PhD	Illinois Institute of Technology	CVS, HEME, SRB
Barbara J. Turner, MD	University of Pennsylvania	BBBP
Charles H. Turner, PhD	Indiana University School of Medicine	MSD
Jerrold R. Turner, MD, PhD	University of Chicago	PPS
Stephen W. Turner, PhD	Nanofluidics, Inc	GNS
Thomas H. Turpen, PhD	Large Scale Biology Corporation	AARR
Gina G. Turrigiano, PhD	Brandeis University	BDCN
Angelo Turturro, PhD	Food and Drug Administration	MSD
George P. Tuszynski, PhD	Temple University	ONC
Jeremy B. Tuttle, MD, PhD	University of Virginia Health Sciences Center	MSD
Rodney K. Tweten, PhD	University of Oklahoma Health Sciences Center	IDM
Donald B. Twieg, PhD	University of Alabama at Birmingham	SRB
Simon N. Twigger, PhD	Medical College of Wisconsin	GNS
John G. Twomey, PhD	Massachusetts General Hospital	HOP
Vida L. Tyc, PhD	St. Jude Children's Research Hospital	GNS
Benjamin Tycko, MD, PhD	Gordon Research Conferences	ONC
Mark L. Tykocinski, MD	University of Pennsylvania	ONC
Dustin J. Tyler, PhD	Neurocontrol Corporation	MSD
Michael Tymianski, MD, PhD	Toronto Western Hospital	BDCN
Angela L. Tyner, PhD	University of Illinois at Chicago	SRB
Harry W. Tyrer, PhD	University of Missouri, Columbia	SRB
Stephen K. Tyring, MD, PhD	University of Texas Medical Branch	MSD
Alexander A. Tzagoloff, PhD	Columbia University	BCS
Bert N. Uchino, PhD	University of Utah	RPHB
Olke C. Uhlenbeck, PhD	Northwestern University	BPC
Kathryn E. Uhrich, PhD	Rutgers University	MSD
Christel H. Uittenbogaart, MD	University of California, Los Angeles	AARR
Buddy Ullman, PhD	Oregon Health and Science University	IDM
Michael T. Ullman, PhD	Georgetown University	BBBP
Sarah E. Ullman, PhD	University of Illinois at Chicago	RPHB
Hasan Uludag, PhD	University of Alberta	MSD
David M. Underhill, PhD	Institute For Systems Biology	AARR, IMM
Dwight D. Underhill, PhD, ScD	University of South Carolina at Columbia	PPS
Marion K. Underwood, PhD	University of Texas at Dallas	RPHB
Vinzenz M. Unger, PhD	Yale University	CDF
Clifford J. Unkefer, PhD	University of California Los Alamos National Laboratory	BPC

Derya Unutmaz, MD	Vanderbilt University	AARR
Lynda L. Uphouse, PhD	Texas Woman's University	IFCN
Walter J. Urba, MD, PhD	Providence Portland Medical Center	ONC
Janice H. Urban, PhD	Finch University of Health Sciences/Chicago Medical School	BDCN
Jack R. U'ren, PhD	Saigene Corporation	IDM
W. M. Usrey, PhD	University of California, Davis	IFCN
Urs Utzinger, PhD	University of Arizona	SRB
Viola V. Vaccarino, MD, PhD	Emory University School of Medicine	BBBBP
Akhil B. Vaidya, PhD	Drexel University	IDM
Chandan J. Vaidya, PhD	Georgetown University	BBBBP, IFCN
Lucia M. Vaina, DSc, MD	Boston University, Charles River Campus	IFCN
Iosif I. Vaisman, PhD	George Mason University	BPC
Armando Valdez, PhD	Valdez and Associates	RPHB
Hector H. Valdivia, MD, PhD	University of Wisconsin Medical School	CVS, MDCN
Daniel J. Valentino,	University of California, Los Angeles	SRB
Rita J. Valentino, PhD	Children's Hospital of Philadelphia	IFCN
Terence Valenzuela, MD	University of Arizona	CVS
Nicholas M. Valiante, PhD	Chiron Corporation	IMM
Daniel A. Vallera, PhD	University of Minnesota Cancer Center	IDM
Peter Van Blarigan	Sandia National Laboratory	MSD
Elisabeth J. Van Bockstaele, PhD	Thomas Jefferson University	IFCN
Richard B. Van Breemen, PhD	University of Illinois College of Pharmacy	BPC, ONC
Robert G. Van Buskirk, PhD	Biolife Solutions, Inc	MSD
Jacques Van Dam, MD, PhD	Stanford University School of Medicine	SRB
Louis D. Van De Kar, PhD	Loyola University Medical Center of Chicago	IFCN
Carla L. Van Den Berg, PhD	University of Colorado Health Sciences Center	ONC
Marcel R. Van Den Brink, MD, PhD	Sloan-Kettering Institute For Cancer Research	ONC
Stephen K. Van Den Eeden, PhD	Kaiser Foundation Research Institute	HOP
Machiel Van Der Loos, PhD	Stanford University	BDCN
Jan M. Van Deursen, PhD	Mayo Clinic, Rochester	ONC
John H. Van Drie, PhD	Vertex Pharmaceuticals	BPC
Richard Van Duyne, PhD	Northwestern University	BPC
Christopher H. Van Dyck, MD	Yale University	BDCN
Chris Van Ee, PhD	Design Research Engineering	MSD
David C. Van Essen, PhD	Washington University	MDCN
William Van Etten, PhD	Bio Team Inc	BPC
Erwin G. Van Meir, PhD	Emory University	ONC
William E. Van Nostrand, PhD	State University of New York	BDCN
Cyma K. Van Petten, PhD	University of Arizona	BBBBP
Gijsbert A. Van Seventer, PhD	Boston University, Medical Campus	IMM
David L. Van Vactor, PhD	Harvard University Medical School	CDF, MDCN
Andre J. Van Wijnen, MD, PhD	University of Massachusetts Medical Center	IMM
Gary E. Van Zant, PhD	University of Kentucky	CDF
Alan Vanbiervliet, PhD	University of Arkansas For Medical Sciences	SRB
Henry F. Vanbrocklin, PhD	Lawrence Berkeley National Laboratory	SRB
Vicki B. Vance, PhD	University of South Carolina at Columbia	GNS
Scott B. Vande Pol, MD, PhD	Case Western Reserve University	IDM
Gregory B. Vanden Heuvel, PhD	University of Kansas Medical Center	MSD
Arthur Vandenbark, PhD	Oregon Health and Science University	IMM
Krista H. Vandenborne, PhD	University of Florida	MSD
Dale D. Vandre, PhD	Ohio State University	MDCN
Eric J. Vanman, PhD	Georgia State University	RPHB
Michael W. Vannier, MD	University of Iowa	CDF, MDCN, MSD, SRB
John M. Varga, MD	University of Illinois at Chicago	MSD
Clemencia M. Vargas, DDS, PhD	University of Maryland, Baltimore County	HOP
Gracie Vargas, PhD	University of Texas Medical Branch at Galveston	SRB
Tomy Varghese, PhD	University of Wisconsin, Madison	SRB
Ajit P. Varki, MD, PhD	University of California, San Diego	IMM
Judith A. Varner, PhD	University of California, San Diego	GNS, ONC

Thomas C. Vary, PhD	Pennsylvania State University	SRB
Michael L. Vasil, PhD	University of Colorado	IDM
Michael R. Vasko, PhD	Indiana University-Purdue University, Indianapolis	IFCN
Gerardo R. Vasta, PhD	University of Maryland Biotechnology Institute	IMM
Stephen F. Vatner, MD	University of Medicine and Dentistry of New Jersey	CVS
Andrew T. Vaughan, PhD	Loyola University Medical Center	ONC
Douglas E. Vaughan, MD	Vanderbilt University	CVS
John T. Vaughan, MD, PhD	Fred Hutchinson Cancer Research Center	SRB
Cyrus Vaziri, PhD	Boston University School of Medicine	ONC
Duncan Veal, PhD	Macquarie University	CDF
Sigrid C. Veasey, MD, PhD	University of Pennsylvania	MDCN
Ronald S. Veazey, DVM, PhD	Tulane University	AARR
Edwin Vedejs, PhD	University of Michigan	BPC
Manjeri A. Venkatachalam, MB, MBBS	University of Texas	MSD
Alan P. Venook, MD	University of California, San Francisco	ONC
David R. Vera, PhD	University of California, San Diego	CDF
Donata Vercelli, MD, PhD	University of Arizona Health Sciences Center	IDM
Eric M. Verdin, MD	J. David Gladstone Institutes	AARR
Gabor Veres, PhD	Cell Genesys, Inc	BCS
Julio L. Vergara, PhD	University of California, Los Angeles	MDCN
Kenneth D. Vernick, PhD	University of Minnesota, Twin Cities	IDM
C. R. Verret, PhD	University of The Sciences In Philadelphia	IMM
Ivan Vesely, MD, PhD	Cleveland Clinic Foundation	SRB
Donald Vesley, PhD	University of Minnesota	IDM
Monica L. Vetter, PhD	University of Utah	ONC
Paul R. Vezina, PhD	University of Chicago	BBBP
Charles S. Via, MD	University of Maryland	IMM
David S. Vicario, PhD	Rutgers University	IFCN
M. Graca H. Vicente, PhD	Louisiana State University A&M College, Baton Rouge	BPC
Paolo Vicini, PhD	University of Washington	SRB
M. Margaret Vickerman, DMD, PhD	State University of New York at Buffalo	MSD
Barbara Vickrey, MD	University of California, Los Angeles	HOP
Jonathan D. Victor, MD, PhD	Weill Medical College of Cornell University	SRB
Ronald G. Victor, MD, PhD	University of Texas Southwestern Medical Center at Dallas	CVS
John M. Vierling, MD	Cedars-Sinai Medical Center	PPS
Elizabeth Vigdor, PhD	Duke University	HOP
Gyula Vigh, PhD	Texas A&M University System	BPC
Peter W. Vik, PhD	Idaho State University	RPHB
Richard G. Vile, PhD	Mayo Clinic, Rochester	ONC
David H. Vilkomerson, PhD	DVX, LLC	SRB
Francisco J. Villarreal, MD, PhD	University of California, San Diego Medical Center	CVS
Antonia M. Villarruel, PhD	University of Michigan at Ann Arbor	AARR
Francois J. Villinger, DVM, PhD	Emory University School of Medicine	AARR
D. Geoffrey Vince, PhD	Cleveland Clinic Foundation	SRB
Inez Vincent, PhD	University of Washington	MDCN
Joseph M. Vinetz, MD	University of California, San Diego	IDM
Joanne L. Viney, PhD	Immunex Corporation	IMM
Herbert W. Virgin, MD, PhD	Washington University	AARR
Karen L. Visick, PhD	Loyola University Medical Center	GNS
Michael P. Vitek, PhD	Cognosci, Inc	BDCN, MDCN
Michael V. Vitiello, PhD	University of Washington	BDCN
Margaret A. Vizzard, PhD	University of Vermont	BDCN, MSD
Helen Vlassara, MD	North Shore-Long Island Jewish Research Institute	CVS
Robert B. Voas, PhD	Pacific Institute For Research and Evaluation	RPHB
Tuan Vo-Dinh, PhD	Oak Ridge National Laboratory	GNS
Richard W. Voellmy, PhD	University of Miami School of Medicine	ONC
Joseph P. Vogel, PhD	Washington University School of Medicine	IDM
Steven S. Vogel, PhD	Medical College of Georgia	CDF
George P. Vogler, PhD	Pennsylvania State University, University Park	BDCN, HOP
Yogesh K. Vohra, PhD	University of Alabama at Birmingham	MSD

Eberhard O. Voit, PhD	Medical University of South Carolina	IDM
Rachel A. Volberg, PhD	National Opinion Research Center	RPHB
Wynn A. Volkert, PhD	University of Missouri, Columbia	ONC
Douglas E. Vollrath, MD, PhD	Stanford University	CDF
David J. Volsky, PhD	Columbia University	AARR
Matthias G. Von Herrath, MD	La Jolla Institute For Allergy and Immunology	IDM, IMM
David A. Vorp, PhD	University of Pittsburgh	CVS
Rhonda R. Voskuhl, MD	University of California, Los Angeles	BDCN
Stephan D. Voss, MD, PhD	Children's Hospital, Boston	SRB
Susan E. Voss, PhD	Massachusetts Eye and Ear Infirmary	IFCN
John R. Votaw, PhD	Emory University	SRB
Judith A. Voynow, MD	Duke University Medical Center	PPS
James T. Voyvodic, PhD	Duke University Medical Center	MDCN
Kent E. Vrana, PhD	Wake Forest University Health Sciences	IFCN, MDCN
Edward J., Vresilovic, MD, PhD	University of Pennsylvania	MSD
Alice Vrieling, PhD	University of California, Santa Cruz	BPC
Susan Vroman, PhD	Georgetown University	BBBBP
Naren R. Vyavahare, PhD	Clemson University	SRB
Robert C. Waag, PhD	University of Rochester	SRB
Kenneth W. Wachter, PhD	University of California, Berkeley	HOP
Thomas A. Wadden, MD, PhD	University of Pennsylvania	RPHB
James B. Wade, PhD	University of Maryland Baltimore Professional School	MSD
Paul A. Wade, PhD	Emory University	BDCN
Patricia Wadsworth, PhD	University of Massachusetts	CDF
William G. Wadsworth, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	MDCN
Alan S. Waggoner, PhD	Carnegie Mellon University	MDCN, SRB
Denisa D. Wagner, PhD	CBR Institute For Biomedical Research	HEME
Donna L. Wagner, PhD	National Council On Aging Develop Corporation	MSD
Gerhard Wagner, PhD	Harvard University Medical School	BPC
John J. Wagner, PhD	North Dakota State University	IFCN
Kenneth R. Wagner, PhD	University of Cincinnati	BDCN
William R. Wagner, PhD	University of Pittsburgh	MSD
Grace Wahba, PhD	University of Wisconsin, Madison	MDCN
Wayne P. Wahls, PhD	University of Arkansas For Medical Sciences	IDM
Ronald T. Wakai, PhD	University of Wisconsin	SRB
Edward K. Wakeland, PhD	University of Texas Southwestern Medical Center at Dallas	NMS
Gary A. Walco, PhD	Hackensack University Medical Center	RPHB
Irene M. Walczak	Imagine Sensor Possibilities	SRB
Frederic M. Waldman, MD, PhD	University of California, San Francisco	ONC
Holly B. Waldron, PhD	Oregon Research Institute	AARR
Angela H. Walker, PhD	National Institute of Standards and Technology	BPC
Ann P. Walker	University of California, Irvine	GNS
Christopher M. Walker, PhD	Children's Research Institute	IMM
Douglas G. Walker, PhD	Sun Health Research Institute	AARR
Edward D. Walker, PhD	Michigan State University	IDM
J. M. Walker, PhD	Brown University	ONC
John C. Walker, PhD	University of Missouri, Columbia	CDF
Larry A. Walker, PhD	University of Mississippi	AARR, ONC
Lynn S. Walker, PhD	Vanderbilt University School of Medicine	RPHB
Mary K. Walker, PhD	University of New Mexico, Albuquerque	PPS
James T. Walkup, PhD	Rutgers University	AARR
Conrad Wall, PhD	Massachusetts Eye and Ear Infirmary	BPC
Bruce G. Wallace, PhD	University of Colorado Health Sciences Center	MDCN
Robert S. Wallis, MD	University of Medicine and Dentistry of New Jersey	IDM
Josh Wallman, PhD	City College of New York	IFCN
Glen Walpert,	Computer Lifeguard, Inc	BDCN
Bruce J. Walsh, PhD	University of Arizona	BPC, IFCN
Joseph T. Walsh, PhD	Northwestern University	SRB
Richard A. Walsh, MD, PhD	University of Cincinnati	CVS
David R. Walt, PhD	Collective Imaging Systems	BPC

Carl R. Waltenbaugh, PhD	Northwestern University	AARR
Mark R. Walter, PhD	University of Alabama at Birmingham	BPC
D. Eric Walters, PhD	Chicago Medical School	AARR, BPC
Edgar T. Walters, PhD	University of Texas Health Science Center, Houston	IFCN
Karina L. Walters, PhD	University of Washington	AARR
Thomas T. Wan, PhD	University of Central Florida	HOP
Brian A. Wandell, PhD	Stanford University	IFCN
Thomas J. Wandless, PhD	Stanford University	BPC
Jack R. Wands, MD	Rhode Island Hospital (Providence, RI)	PPS
Joseph L. Waner, PhD	University of Oklahoma Health Sciences Center	IMM
Binghe Wang, PhD	North Carolina State University, Raleigh	BPC
C. C. Wang, PhD	University of California, San Francisco	IDM
Chyung-Ru Wang, PhD	University of Chicago	IMM
Denong Wang, MD, PhD	Columbia University	BPC
Eugenia Wang, MD, PhD	University of Louisville	PPS
Fong Liu Wang, MD, PhD	Novascreen Biosciences Corp.	BDCN
Frederick C. Wang, MD	Brigham and Women's Hospital	IDM
Hong-Gang Wang, PhD	H. Lee Moffitt Cancer Center and Research Institute	ONC
James H.-C. Wang, PhD	University of Pittsburgh	MSD
Kuan Wang, PhD	National Institute of Arthritis and Musculoskeletal and Skin Diseases	CDF
Lihong Wang, PhD	Texas A&M University	ONC, SRB
Peng G. Wang, PhD	Ohio State University	BPC
Ping Wang, MD	North Shore-Long Island Jewish Research Institute	SRB
Rong Wang, PhD	Mount Sinai School of Medicine	ONC
Tong Wang, MD, PhD	Yale University	MSD
Xiao-Jing Wang, MD, PhD	Baylor College of Medicine	MSD
Xiao-Jun J. Wang, PhD	Georgia Southern University	SRB
Yi Wang, PhD	University of Pittsburgh	SRB
Yue J. Wang, PhD	Virginia Polytechnic Institute and State University	SRB
Zhigang Wang, PhD	University of Kentucky	ONC
Zhou Wang, PhD	Northwestern University	NMS
Zuoxin Wang, PhD	Florida State University	BBBP
Dorothy P. Warburton, PhD	Columbia University College of Physicians and Surgeons	GNS, HOP
Peter E. Warburton, PhD	Mount Sinai School of Medicine	GNS
Denham S. Ward, MD, PhD	University of Rochester	SRB
E. Sally Ward, PhD	University of Texas Southwestern Medical Center at Dallas	IMM
Kenneth Ward, MD, PhD	Legacy Clinical Research and Technology Center	BPC
Russell A. Ward, MD, PhD	State University of New York at Albany	RPHB
Sandra E. Ward, PhD	University of Wisconsin, Madison	HOP, RPHB
Carl F. Ware, PhD	La Jolla Institute For Allergy and Immunology	IMM
Joy L. Ware, PhD	Virginia Commonwealth University	MSD
David B. Warheit, PhD	Dupont Haskell Laboratory	PPS
David O. Warner, MD	Mayo Clinic, Rochester	SRB
Teddy D. Warner, PhD	University of New Mexico	HOP
John W. Warren, MD, PhD	University of Maryland	MSD
Stephen T. Warren, PhD	Emory University	BCS
William H. Warren, PhD	Brown University	BBBP
Leigh R. Washburn, PhD	University of South Dakota	IDM
Richard A. Washburn, PhD	University of Kansas	HOP
John A. Wass, PhD	Abbott Laboratories	GNS
Steven A. Wasserman, PhD	University of California, San Diego	GNS
Wyeth W. Wasserman	University of British Columbia	GNS
Eric M. Wassermann, MD	National Institute of Neurological Disorders and Stroke	MDCN
Michiko Watanabe, PhD	University Hospitals of Cleveland	CVS, HEME
Keith D. Watenpugh, PhD	Pharmacia and Upjohn, Inc	BPC
Rikki N. Waterhouse, PhD	Columbia University	SRB
David I. Watkins, PhD	Wisconsin Regional Primate Research Center	AARR
Linda R. Watkins, PhD	University of Colorado at Boulder	IFCN
Paul A. Watkins, MD, PhD	Kennedy Krieger Research Institute, Inc	GNS
Ruth V. Watkins, PhD	University of Illinois at Urbana-Champaign	RPHB

Simon C. Watkins, PhD	University of Pittsburgh School of Medicine	CDF
Susan C. Watkins, PhD	University of Pennsylvania	CDF
Dennis K. Watson, PhD	Medical University of South Carolina	ONC
Jacqueline A. Watson, DO	Health Concepts International	AARR, BBBP
Joseph B. Watson, PhD	University of California, Los Angeles	BDCN
Karol E. Watson, MD, PhD	University of California, Los Angeles	RPHB
Alan G. Watts, PhD	University of Southern California	IFCN
Stephanie W. Watts, PhD	Michigan State University	CVS
David J. Waxman, PhD	Boston University, Charles River Campus	PPS
Keith A. Wear, PhD	Food and Drug Administration	ONC
Susan L. Wearne, PhD	Mount Sinai School of Medicine	MDCN
Casey T. Weaver, MD	University of Alabama at Birmingham	IMM
Connie M. Weaver, PhD	School of Consumer and Family Sciences	MSD
James C. Weaver, PhD	Massachusetts Institute of Technology	ONC, SRB
John B. Weaver, PhD	Dartmouth College	SRB
Andrew G. Webb, PhD	University of Illinois at Urbana-Champaign	BPC
Clinton R. Webb, PhD	University of Michigan at Ann Arbor	CVS, SRB
Robert H. Webb, PhD	University of Kansas Medical Center	BDCN
Watt W. Webb, PhD, ScD	Cornell University	BPC
Bonnie L. Webber, PhD	University of Pennsylvania	MDCN
Larry S. Webber, PhD	Tulane University	HOP
Barbara L. Weber, MD	University of Pennsylvania	GNS
Irene T. Weber, PhD	Georgia State University	AARR
James L. Weber, PhD	Marshfield Clinic	GNS
Shane C. Weber, PhD	Millennium Pharmaceuticals Inc	BCS
Stephen G. Weber, PhD	University of Pittsburgh	BPC, IDM
Thomas Weber, PhD	Mount Sinai School of Medicine	BCS
Michael A. Webster, PhD	University of Nevada, Reno	IFCN
Wendee M. Wechsberg, PhD	Research Triangle Institute	AARR
Daniel S. Wechsler, MD, PhD	University of Michigan at Ann Arbor	ONC
Lynn Wecker, PhD	University of South Florida	MDCN
Ananda Weerasuriya, PhD	Mercer University Macon	BDCN
Felix W. Wehrli, PhD	University of Pennsylvania	SRB
Qingyi Wei, MD, PhD	University of Texas M.D. Anderson Cancer Center	HOP
Peter J. Weiden, MD	State University of New York Downstate Medical Center	RPHB
Paul J. Weidle	Centers For Disease Control and Prevention	AARR
Nancy L. Weigel, PhD	Baylor College of Medicine	ENR
Paul H. Weigel, PhD	University of Oklahoma Health Sciences Center	BCS
Charles Weijer, MD, PhD	Dalhousie University	RPHB
P. Anthony Weil, PhD	Vanderbilt University School of Medicine	CDF
Eric S. Weinberg, PhD	University of Pennsylvania	CDF
Scot Weinberger, PhD	Ciphergen Biosystems, Inc	BCS
Amy J. Weiner, PhD	Chiron Corporation	PPS
George J. Weiner, MD	University of Iowa College of Medicine	ONC
I. David Weiner, MD	University of Florida	MSD
Louis M. Weiner, MD	Keystone Symposia	ONC
Clarann L. Weinert, PhD	Montana State University, Bozeman	HOP
Steven A. Weinman, MD, PhD	University of Texas	PPS
Steven M. Weinreb, PhD	Pennsylvania State University, University Park	BPC
Barbara E. Weinstein, PhD	Lehman College, City University of New York	RPHB
David E. Weinstein, MD, PhD	Gliamed, Inc	BDCN
Harel Weinstein, DSc, PhD	Weill Medical College of Cornell University	BDCN, MDCN
Martin A. Weinstock, MD, PhD	Rhode Island Hospital (Providence, RI)	HOP
Susan T. Weintraub, PhD	University of Texas Health Science Center	BPC
Bruce S. Weir, PhD	North Carolina State University	GNS
Edward K. Weir, MD	Veterans Affairs Medical Center	PPS
Janis J. Weis, PhD	Gordon Research Conferences	MSD
Alison A. Weiss, PhD	University of Cincinnati	IDM
Bernard Weiss, PhD	University of Rochester	IFCN
Gregory A. Weiss, PhD	University of California, Irvine	BPC

Jay M. Weiss, PhD	Emory University	IFCN
Jerrold P. Weiss, PhD	University of Iowa	IDM
John H. Weiss, MD, PhD	University of California, Irvine	BDCN
Klaudiusz R. Weiss, PhD	New York State Psychiatric Institute	IFCN
Louis M. Weiss, MD	Albert Einstein College of Medicine, Yeshiva University	AARR
William A. Weiss, MD, PhD	University of California, San Francisco	ONC
William Joseph Weiss, PhD	Pennsylvania State University Hershey Medical Center	SRB
Bernard E. Weissman, MD, PhD	University of North Carolina	MSD, ONC
Drew Weissman, MD, PhD	University of Pennsylvania	AARR
Judith Weisz, MB, MD	Pennsylvania State University	ONC
Charles J. Weitz, MD, PhD	Harvard University Medical School	IFCN
Matthew D. Weitzman, PhD	Salk Institute For Biological Studies	BCS, IDM
Michael A. Weitzner, MD	University of South Florida	RPHB
David F. Welch, PhD	Laboratory Corporation of America	IDM
Michael J. Welch, MD, PhD	Washington University School of Medicine	BCS, ONC
Rodney A. Welch, PhD	University of Wisconsin, Madison	IDM, MSD
Susan Welkos	United States Army Medical Research Institute of Infectious Diseases	IDM
Dorinda L. Welle, PhD	National Development and Research Institutes	AARR
Stephen L. Welle, PhD	University of Rochester Medical Center	NMS
Peter F. Weller, MD	Beth Israel Deaconess Medical Center	IMM
Parris S. Wellman, PhD	Cardioventions	SRB
Alan Wells, DMD, MD	University of Pittsburgh	BPC, ENR, ONC
Carol L. Wells, PhD	University of Minnesota	SRB
Jennifer J. Wells, PhD	Oregon Center For Applied Science	AARR
Meredith M. Wells, PhD	Eastern Kentucky University	RPHB
Rebecca G. Wells, MD	University of Pennsylvania	PPS
Anton Wellstein, MD, PhD	Georgetown University	ONC
Frank A. Welsh, PhD	University of Pennsylvania	BDCN
John P. Welsh, PhD	Oregon Health and Science University	IFCN
Raymond M. Welsh, PhD	University of Massachusetts Medical School, Worcester	IMM
Kathleen A. Welsh-Bohmer, PhD	Duke University Medical Center	BDCN
Jean F. Welter, MD, PhD	Case Western Reserve University	MSD
Gary L. Wenk, PhD	University of Arizona	BDCN
Theodore G. Wensel, PhD	Baylor College of Medicine	CDF
Mark P. Wentland, PhD	Rensselaer Polytechnic Institute	BPC
Suzanne L. Wenzel, PhD	Rand Corporation	AARR
Frank S. Werblin, PhD	University of California, Berkeley	CDF
Martha M. Werler, ScD	Boston University, Medical Campus	HOP
John S. Werner, PhD	University of California, Davis	CDF, IFCN
Peter Werner, PhD	Albert Einstein College of Medicine, Yeshiva University	BDCN
Miles N. Wernick, PhD	Illinois Institute of Technology	SRB
Steven W. Werns, MD	Robert Wood Johnson Medical School	CVS, HEME
Gail W. Wertz, PhD	University of Alabama at Birmingham	IDM
Hunter Wessells, MD	University of Washington	MSD
Ursula Wesselmann, MD	Johns Hopkins University	MSD
James R. West, PhD	Texas A&M University Health Science Center	IFCN
Jennifer L. West, PhD	Rice University	SRB
John L. West, PhD	Kent State University	BPC
Mark O. West, PhD	Rutgers University	IFCN
Robert L. West, PhD	University of Notre Dame	BBBP
Susan H. West, PhD	University of Wisconsin, Madison	IDM
Edwin M. Westbrook, MD, PhD	Molecular Biology Consortium	BCS, SRB
Drew Westen, PhD	Boston University, Charles River Campus	BBBP
Greg C. Westergaard, PhD	Labs of Virginia, Inc	BBBP
Ma Julie Westerink, MD	Medical College of Ohio at Toledo	IDM
David P. Westfall, PhD	University of Nevada	CVS
Eric Westhof, PhD	University Louis Pasteur	BPC
Eric C. Westman, MD	Duke University Medical Center	BBBP
James G. Wetmur, PhD	Mount Sinai School of Medicine	GNS
David W. Wetter, MD, PhD	University of Texas M.D. Anderson Cancer Center	HOP

Ronald B. Wetzel, PhD	University of Tennessee Medical Center	MDCN
Mary Ellen Wewers, PhD	Ohio State University	AARR
Bruce E. Wexler, MD	Yale University	BBBP
Douglas H. Whalen, PhD	Haskins Laboratories	BBBP
Paul J. Whalen, PhD	University of Wisconsin, Madison	BBBP
Elizabeth Whalley, PhD	San Francisco State University	BBBP
Kyumin Whang, PhD	University of Texas Health Science Center	MSD
Bruce C. Wheeler, PhD	University of Illinois at Urbana-Champaign	MDCN
Sondra Wheeler, PhD	Wesley Theological Seminary	GNS
William O. Whetsell, MD	Vanderbilt Medical Center	BDCN
Caroline C. Whitacre, PhD	Ohio State University School of Medicine	BPC
Arthur Clinton White, MD	Baylor College of Medicine	AARR
Catherine A. White, PhD	University of Georgia	BPC
Hillary D. White, PhD	Dartmouth Medical School	IMM
Howard D. White, PhD	Eastern Virginia Medical School	BPC
John G. White, PhD	University of Wisconsin, Madison	CDF, SRB
Kalpana P. White, PhD	Brandeis University	CDF
Lee White,	Northwest Media, Inc	BBBP
P. Scott White, PhD	University of California Los Alamos National Laboratory	GNS
Theodore C. White, PhD	Seattle Biomedical Research Institute	AARR
William Joseph White, VMD	Charles River Laboratory	IDM
Alexander S. Whitehead, DPH	University of Pennsylvania	MSD
William E. Whitehead, PhD	University of North Carolina, Chapel Hill	MSD, PPS
Luke J. Whitesell, MD	University of Arizona	ONC
Theresa L. Whiteside, PhD	University of Pittsburgh Cancer Institute	ONC
Donna S. Whitlon, PhD	Northwestern University	IFCN
Peter Whittaker, PhD	University of Massachusetts Medical School, Worcester	SRB
Scott R. Whittmore, PhD	University of Louisville	MDCN
Holly A. Wichman, PhD	University of Idaho	ONC
Thomas N. Wichmann, MD	Emory University	IFCN
Brian L. Wickes, PhD	University of Texas Health Science Center at San Antonio	AARR
Samuel A. Wickline, MD	Barnes-Jewish Hospital	SRB
Jerry W. Wicks, PhD	Senecio Software, Inc	HOP
Thomas A. Widiger, PhD	University of Kentucky	BBBP
Theodore S. Widlanski, PhD	Indiana University	BPC
Lawrence E. Widman, MD, PhD	University of Texas Health Science Center	SRB
William F. Wiczorek, PhD	Research Institute On Addictions	HOP
Danny L. Wiedbrauk, PhD	Warde Medical Laboratory	IDM
Timothy S. Wiedmann, PhD	University of Minnesota	BCS
Darryl G. Wieland, PhD	South Carolina State Department of Mental Health	HOP
Brian L. Wigdahl, PhD	Drexel University	AARR
Robert M. Wightman, PhD	University of North Carolina, Chapel Hill	BPC
Dan A. Wiginton, PhD	Children's Hospital Medical Center, Cincinnati	GNS
Stephen K. Wikel, PhD	University of Connecticut School of Medicine and Dentistry	IDM
Carol J. Wikstrand, PhD	Duke University Medical Center	BDCN
John P. Wikswo, PhD	Vanderbilt University	CVS
D. Scott Wilbur, PhD	University of Washington	BCS
Ronnie Wilbur, PhD	Purdue University	BBBP
W. J. Wilbur, PhD	National Library of Medicine	MDCN
Christopher S. Wilcox, MD, PhD	Georgetown University	CVS
Richard E. Wilcox, PhD	University of Texas	BDCN
David L. Wild, PhD	Keck Graduate Institute of Applied Life Sciences	BPC
Christine F. Wildsoet, PhD	New England College of Optometry	IFCN
Clayton A. Wiley, MD, PhD	University of Pittsburgh School of Medicine	AARR, BDCN
Thelma E. Wiley, MD	University of Illinois at Chicago	PPS
Sherwin Wilk, PhD	Mount Sinai School of Medicine	BCS
Diana J. Wilkie, PhD	University of Illinois at Chicago	HOP
Ebtisam S. Wilkins, PhD	University of New Mexico School of Medicine	MSD
Gerald S. Wilkinson, PhD	University of Maryland, College Park	BBBP
Grant R. Wilkinson, DSc, PhD	Vanderbilt University	CVS

Keith D. Wilkinson, PhD	Emory University School of Medicine	BCS
Erik G. Willcutt, PhD	University of Colorado at Boulder	HOP
Dennis M. Willerford, MD	University of Washington	IMM
Ann B. Williams, Edd, PhD	Yale University	AARR
Bryan R. Williams, PhD	Cleveland Clinic Foundation	IMM, ONC
Calvin L. Williams, PhD	Clemson University	HOP
Christina L. Williams, PhD	Duke University	IFCN
Christopher Williams, PhD	National Health Promotion Associates	IMM
Gordon H. Williams, MD	Brigham and Women's Hospital	CVS
James K. Williams, DVM	Wake Forest University Health Sciences	CVS
Janet K. Williams, PhD	University of Iowa	GNS
Jay H. Williams, PhD	Virginia Polytechnic Institute and State University	MSD
John G. K. Williams, PhD	Li-Cor, Inc	GNS
John P. Williams, PhD	University of Kentucky	MSD
John T. Williams, PhD	Oregon Health and Science University	IFCN
Kandace J. Williams, PhD	Medical College of Ohio	ONC
Kenneth C. Williams, PhD	Beth Israel Deaconess Medical Center	AARR, MDCN
Lawrence E. Williams, PhD	City of Hope National Medical Center	ONC
Michael Williams	Northwestern University	IFCN
Michelle A. Williams, DSc, MD	Swedish Medical Center, First Hill	ENR, HOP
Moses L. Williams, PhD	Distance Learning Center, Inc	IDM
Noreen Williams, PhD	State University of New York at Buffalo	CDF
P. Stephen Williams, PhD	Cleveland Clinic Foundation	BPC
Patricia B. Williams, PhD	Eastern Virginia Medical School	SRB
Patrick Williams, PhD	Idaho Technology	GNS
Phoebe D. Williams, PhD	University of Kansas	HOP
Robert W. Williams, PhD	University of Tennessee Health Science Center	MDCN
Scott Matthew Williams, PhD	Vanderbilt University	GNS
Stuart K. Williams, MD, PhD	Pare Technologies	CVS, MSD
Donald A. Williamson, PhD	Louisiana State University Pennington Biomedical Research Center	BBBBP, RPHB
E. Diane Williamson, PhD	Defence Science and Technology Laboratory	AARR
Jeffrey F. Williamson, PhD	Virginia Commonwealth University	ONC
Peter R. Williamson, MD, PhD	University of Illinois at Chicago	IDM
Paul G. Williard, PhD	Brown University	ONC
Daniel T. Willingham, PhD	University of Virginia	BBBBP
Sherry D. Willis,	Agency For Healthcare Research and Quality	BBBBP
Thomas D. Willis, PhD	Parallele Bioscience	GNS
William D. Willis, MD, PhD	University of Texas Medical Branch	IFCN
Laurel Wills, MD	Minnesota Regional Sleep Disorders Center	BDCN
Thomas A. Wills, PhD	Yeshiva University	HOP, RPHB
Brenda A. Wilson, PhD	University of Illinois at Urbana-Champaign	AARR, IDM
Brian C. Wilson, PhD	University of Toronto	ONC, SRB
Brian S. Wilson, MD, PhD	Massachusetts General Hospital	BPC
Bruce E. Wilson, MD	Specenterum Health	RPHB
Charles J. Wilson, PhD	University of Texas at San Antonio	IFCN
David B. Wilson, MD, PhD	Washington University	CDF
David L. Wilson, PhD	Case Western Reserve University	SRB
Dawn K. Wilson, PhD	University of South Carolina at Columbia	RPHB
Deborah E. Wilson, DrPH, PhD	National Institutes of Health	IDM
Denise M. Wilson, PhD	University of Washington	BPC
Donald A. Wilson, PhD	University of Oklahoma	BBBBP
Duncan W. Wilson, PhD	Albert Einstein College of Medicine, Yeshiva University	IDM
George S. Wilson, PhD	University of Kansas	BPC
Gisela F. Wilson, PhD	University of Michigan	MDCN
Glenn L. Wilson, PhD	University of South Alabama	ONC
John H. Wilson, PhD	Baylor College of Medicine	BCS
Katherine L. Wilson, PhD	Johns Hopkins University	CDF
Mark L. Wilson, ScD	University of Michigan at Ann Arbor	IDM
Matthew A. Wilson, PhD	Massachusetts Institute of Technology	IFCN
William H. Wilson, PhD	Duke University Medical Center	BDCN

Fred H. Wilt, PhD	Gordon Research Conferences	MSD
Jeffrey Wilusz, PhD	Colorado State University	CDF
Patricia K. Winchester, PhD	University of Texas Southwestern Medical Center at Dallas	MSD
Danny G. Winder, PhD	Vanderbilt University	MDCN
William W. Winder, PhD	Brigham Young University	MSD
Bradford E. Windle, PhD	Massey Cancer Center	GNS
Jolene J. Windle, PhD	Virginia Commonwealth University	ONC
Michael T. Windle, PhD	University of Alabama at Birmingham	RPHB
Howard Winet, PhD	Orthopaedic Hospital of Los Angeles	MSD
Christopher J. Wingard, PhD	Medical College of Georgia	MSD
Charles S. Wingo, MD	University of Florida	MSD
Gina M. Wingood, ScD	Emory University	AARR
Jay R. Winkler, PhD	Gordon Research Conferences	BPC
Shelley R. Winn, PhD	Oregon Health and Science University	MSD
Nicholas Winograd, PhD	Pennsylvania State University	BCS
Tom Winokur, MD	University of Alabama	ONC
Astar Winoto, PhD	University of California, Berkeley	BPC
Peter J. Winsauer, PhD	Louisiana State University Health Sciences Center, New Orleans	AARR
Gary M. Winslow, PhD	Wadsworth Center	IMM
James T. Winslow, PhD	Yerkes Regional Primate Research Center	BBBP
Raimond L. Winslow, PhD	Whitaker Biomedical Engineering Institute	BPC, MDCN, SRB
Fred M. Winston, PhD	Harvard University Medical School	CDF
Jack Winters, PhD	Marquette University	MSD
Ken C. Winters, PhD	University of Minnesota	RPHB
Peter Wipf, PhD	University of Pittsburgh	ONC
Dyann F. Wirth, PhD	Harvard University School of Public Health	IDM
Kimberlydawn Wisdom, MD	Henry Ford Health System	HOP
Ronald M. Wisdom, MD, PhD	University of California, Davis	ONC
Kim S. Wise, PhD	University of Missouri, Columbia	IDM
Katherine L. Wisner, MD	University of Pittsburgh	BBBP
Steve Wisniewski, PhD	University of Pittsburgh	HOP
Thomas M. Wisniewski, MD, PhD	New York University School of Medicine	BDCN
Andrew L. Wit, PhD	Columbia University College of Physicians and Surgeons	CVS
Linda Witek-Janusek, PhD	Loyola University, Chicago	HOP
Paul Witkovsky, PhD	New York University Medical Center	CDF
Stephan N. Witt, PhD	Louisiana State University Health Sciences Center, Shreveport	IMM
James C. Witte, PhD	Clemson University	HOP
Pamela L. Witte, MD, PhD	Loyola University Medical Center	CDF
Michele A. Wittig, PhD	California State University, Northridge	RPHB
Barbara A. Woike, PhD	Barnard College	RPHB
Cynthia Wolberger, PhD	Johns Hopkins University	BPC
William S. Wold, PhD	Virrx, Inc	ONC
Marty G. Woldorff, PhD	Duke University	IFCN
Barry Wolf, MD, PhD	Connecticut Children's Medical Center	NMS
Marina E. Wolf, PhD	Finch University of Health Sciences/Chicago Medical School	BBBP
Steven L. Wolf, PhD	Emory University	MSD
Susan M. Wolf, JD	University of Minnesota, Twin Cities	GNS
Barry B. Wolfe, PhD	Georgetown University	BDCN
David A. Wolfe, PhD	University of Western Ontario	RPHB
John H. Wolfe, DVM, MD	Children's Hospital of Philadelphia	GNS
Michael S. Wolfe, PhD	Brigham and Women's Hospital	MDCN
Robert R. Wolfe, PhD	Innovative Health Solutions, Inc	NMS
Mariana F. Wolfner, PhD	Cornell University, Ithaca	CDF
Debra J. Wolgemuth, PhD	Columbia University College of Physicians and Surgeons	ONC
Fredric D. Wolinsky, PhD	University of Iowa	HOP
Steven M. Wolinsky, MD, PhD	Northwestern University	AARR
Allan W. Wolkoff, MD	Albert Einstein College of Medicine, Yeshiva University	PPS
Gayle E. Woloschak, PhD	Northwestern University	ONC
Benjamin L. Wolozin, MD, PhD	Loyola University Medical Center	MDCN
Jonathan R. Wolpaw, MD, PhD	Wadsworth Center	BDCN

Albert J. Wong, MD	Thomas Jefferson University	ONC
Brian J. Wong, MD, PhD	University of California, Irvine	IFCN
David T. Wong, DMD	University of California, Los Angeles	ONC
David W. Wong, PhD	George Mason University	HOP
Eric A. Wong, PhD	Virginia Polytechnic Institute and State University	GNS
Frank Y. Wong, PhD	National Asian Pacific American Families Against Substance Abuse	AARR
Gerard C. L. Wong, PhD	University of Illinois at Urbana-Champaign	MSD
John W. Wong, PhD	William Beaumont Hospital Research Institute	ONC
Lid B. Wong, PhD	Biotechplex Corporation	BDCN
Paul K. Wong, PhD	University of Texas M.D. Anderson Cancer Center	AARR
Philip C. Wong, PhD	Johns Hopkins University School of Medicine	MDCN
Scott W. Wong, PhD	Oregon Health and Science University	AARR
Susan F. Wong, PhD	University of Bristol	BPC
Wing H. Wong, PhD	Harvard University School of Public Health	GNS, MDCN
Charles Wood, MD	University of Nebraska	AARR
Charles C. Wood, PhD	Los Alamos National Laboratory	SRB
David O. Wood, PhD	University of South Alabama	IDM
John L. Wood, PhD	Yale University	BPC
Ruth I. Wood, PhD	University of Southern California	IFCN
W. Gill Woodall, PhD	University of New Mexico, Albuquerque	HOP
Dixon J. Woodbury, PhD	Brigham Young University	MDCN
Christopher L. Woodcock, PhD	University of Massachusetts, Amherst	CDF
David L. Woodland, PhD	Trudeau Institute, Inc	IDM, IMM
David T. Woodley, MD	University of Southern California	MSD
Karen A. Woodrow-Lafield, PhD	University of Notre Dame	HOP
Anne C. Woods, PhD	University of Alabama at Birmingham	CDF
Erik J. Woods, PhD	General Biotechnology	MSD
Roger P. Woods, MD	University of California, Los Angeles	MDCN
Stephanie J. Woods	University of Akron	HOP
Stephen C. Woods, PhD	University of Cincinnati	ENR, IDM, IFCN, NMS
Darren G. Woodside, PhD	Encysive Pharmaceuticals	IMM
John J. Woodward, PhD	University of South Carolina	IFCN
John Wooley, PhD	University of California, San Diego	MDCN
John L. Woolford, PhD	Carnegie Mellon University	CDF
Catherine S. Woolley, PhD	Northwestern University	MDCN
Robert F. Woolson, PhD	Medical University of South Carolina	HOP
John Kimbal Worden, PhD	University of Vermont and State Agricultural College	HOP
Jerry L. Workman, PhD	Stowers Institute For Medical Research	BCS
Paul F. Worley, MD	Johns Hopkins University	MDCN
Maria J. Worsham, PhD	Henry Ford Hospital	BDCN
Patricia L. Worsham, PhD	United States Army Medical Research Institute of Infectious Diseases	IDM
Keith J. Worsley, PhD	McGill University	MDCN
Henry H. Wortis, MD	Tufts University, Boston	IDM
Daniel J. Wozniak, PhD	Wake Forest University Health Sciences	IDM
Jean R. Wrathall, PhD	Georgetown University	BBBP
Lucile E. Wrenshall, MD, PhD	University of Nebraska Medical Center	SRB
Anne L. Wright, PhD	University of Arizona	HOP
David W. Wright, PhD	Vanderbilt University	BCS
Eric R. Wright, PhD	Indiana University-Purdue University, Indianapolis	AARR
Ernest M. Wright, DSc, PhD	University of California, Los Angeles	CVS
Heather H. Wright, PhD	University of Kentucky	BBBP
Kenneth L. Wright, PhD	H. Lee Moffitt Cancer Center and Research Institute	IMM
Peter F. Wright, MD, PhD	Vanderbilt University	IDM
Rosalind J. Wright, MD	Brigham and Women's Hospital	RPHB
Steven M. Wright, PhD	Texas A&M University System	SRB
Teresa L. Wright, MD, PhD	Northern California Institute For Research and Education	PPS
Terry W. Wright, PhD	University of Rochester	AARR
Carol A. Wu, PhD	University of Connecticut Health Center	MDCN
Cathy H. Wu, PhD	Georgetown University	BPC, MDCN

Chun-Fang Wu, PhD	University of Iowa	IFCN, MDCN
Dayong Wu, MD	Tufts University	MSD
Jie Wu, MD, PhD	University of South Florida	ONC
Kuang Jen Wu, PhD	Lawrence Livermore National Laboratory	BCS
Yow-Wu B. Wu, PhD	State University of New York at Buffalo	HOP
Daniel A. Wubah, PhD	James Madison University	CDF
Judith A. Wubah, PhD	James Madison University	CDF
Kai W. Wucherpfennig, MD, PhD	Dana-Farber Cancer Institute	IDM
Christoph Wuelfing, PhD	University of Texas Southwestern Medical Center at Dallas	BPC
Jerome R. Wujek, PhD	Learner Research Institute	BDCN
Edelgard Wulfert, PhD	State University of New York at Albany	BBBP
Stephanie L. Wunder, MD, PhD	Temple University	MSD
James K. Wyatt, PhD	Rush-Presbyterian-St. Luke's Medical Center	IFCN
Keith L. Wycoff, PhD	Planet Biotechnology, Inc	AARR
Judith Wylie-Rosett, Edd	Albert Einstein College of Medicine, Yeshiva University	NMS
Jean F. Wyman, PhD	University of Minnesota, Twin Cities	HOP
Clive D. Wynne, PhD	University of Florida	BBBP
Priscilla B. Wyrick, PhD	East Tennessee State University	IDM
Lawrence J. Wysocki, PhD	National Jewish Medical and Research Center	IMM
J. Michael Wyss, MD, PhD	University of Alabama	CVS
Xiao Xiao, PhD	University of Pittsburgh	BCS
Keping Xie, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Simon X. Xie, MD, PhD	Deltagen Inc	MDCN
Lianping Xing, MD, PhD	University of Rochester	MSD
Zhou Xing, MD, PhD	McMaster University	BCS
Eiangxi Xu, PhD	Fox Chase Cancer Center	ONC
Jianfeng Xu, DPH	Wake Forest University Health Sciences	HOP
Rui-Ming Xu, PhD	Cold Spring Harbor Laboratory	BPC
Shizhong Xu,	University of California, Riverside	BPC
Xiao Ming Xu, MD, PhD	University of Louisville	BDCN
Xiaohong Nancy Xu, PhD	Old Dominion University	SRB
Yan Xu, PhD	University of Pittsburgh	BPC
Jason J. Xuan, PhD	Catholic University of America	SRB
Zipora Yablonka-Reuveni, PhD	University of Washington	MSD
Dmitriy A. Yablonskiy, DSc	Mallinckrodt Institute of Radiology	SRB
Michael P. Yaffe, MD, PhD	University of California, San Diego	GNS
Paul Yager, PhD	University of Washington	BPC, ONC
Tony L. Yaksh, MD, PhD	University of California, San Diego	IFCN
Chandrasekhar Yallampalli, DVM, PhD	University of Texas Medical Branch	NMS
Jack C. Yalowich, PhD	University of Pittsburgh School of Medicine	ONC
Kenneth M. Yamada, MD	National Institute of Dental and Craniofacial Research	BCS
Yu Yamaguchi, MD, PhD	Burnham Institute	BCS
Bryan K. Yamamoto, PhD	Boston University School of Medicine	BDCN
Janet K. Yamamoto, PhD	University of Florida	AARR
Ebenezer N. Yamoah, PhD	University of California	IFCN
Vladimir F. Yamshchikov, PhD	University of Kansas, Lawrence	AARR, IDM
Jack Yamuy, MD	University of California, Los Angeles	IFCN
Guiyun Yan, PhD	University of Buffalo	IDM
Kim B. Yancey, MD	Medical College of Wisconsin	MSD
Chinglai Yang, PhD	Emory University	AARR
Chung S. Yang, PhD	Rutgers University	ONC
Claire C. Yang, MD	University of Washington	MSD
Otto O. Yang, MD	University of California, Los Angeles	AARR
Qing X. Yang, PhD	Superarray Bioscience Corporation	SRB
Vincent W. Yang, MD, PhD	Emory University	PPS, SRB
Weitao Yang, PhD	Duke University	BCS
Xiaoming Yang, MD, PhD	Johns Hopkins University	BCS
Yih-Ming Yang, MD	University of South Alabama	CVS
David F. Yankelevitz, MD	Cornell University Medical Center	SRB
George S. Yap, PhD	Brown University	IMM

Marta C. Yappert, PhD	University of Louisville	BPC
Kevin E. Yarasheski, PhD	Washington University	NMS
Paul I. Yaswen, PhD	Lawrence Berkeley National Laboratory	ONC
Michael J. Yaszemski, MD, PhD	Mayo Clinic, Rochester	MSD
John R. Yates, PhD	Scripps Research Institute	BPC
Nathan Yates, PhD	Merck and Company, Inc	BPC
Stephen Yazulla, PhD	State University of New York at Stony Brook	CDF
Qi-Zhuang Ye, PhD	University of Kansas, Lawrence	BCS
Mark J. Yeager, MD, PhD	Scripps Research Institute	CDF
Michael R. Yeaman, PhD	Harbor-UCLA Research and Education Institute	IDM
Donna L. Yee, PhD	Asian Community Center	RPHB
Deborah L. Yelon, PhD	New York University	CDF
Yun C. Yen, MD, PhD	City of Hope/Beckman Research Institute	ONC
Alfred L. Yergey, PhD	National Institute of Child Health and Human Development	BPC
Albert S. Yeung, DSc, MD	Massachusetts General Hospital	BBBP
Qing Yi, MD, PhD	University of Arkansas For Medical Sciences	ONC
Tachung C. Yih, PhD	University of Texas at Arlington	SRB
Jerry C. Yin, PhD	Cold Spring Harbor Laboratory	MDCN
Douglas R. Yingst, PhD	Wayne State University	MSD
Christopher Yip, PhD	University of Toronto	MSD
Mervin C. Yoder, MD	Indiana University	CDF
Arjun G. Yodh, PhD	University of Philadelphia	SRB
Boris Yoffe, MD	Baylor College of Medicine	IDM
Hiroki Yokota, PhD	Indiana University-Purdue University, Indianapolis	MSD
Sung Ok Yoon, PhD	Ohio State University	MDCN
Thomas Yorio, PhD	University of North Texas Health Science Center	BDCN, MDCN
Darrin M. York, PhD	University of Minnesota	BPC
Ellen D. Yorke, PhD	Memorial Sloan-Kettering Cancer Center	ONC
Naoki Yoshimura, MD, PhD	University of Pittsburgh	MSD
Timothy P. Yoshino, PhD	University of Wisconsin	CDF, IDM
Garold S. Yost, PhD	University of Utah	PPS
Michael J. Yost, PhD	University of South Carolina	MSD
William A. Yost, PhD	Loyola University of Chicago	IFCN
Ming Null You, MD, PhD	University of Alabama at Birmingham	ONC
Richard J. Youle, PhD	National Institutes of Health	IDM
Alice M. Young, PhD	Wayne State University	IFCN
Anthony P. Young, PhD	Ohio State University	ONC
James W. Young, MD	Sloan-Kettering Institute For Cancer Research	ONC
John A.T. Young, PhD	Salk Institute For Biological Studies	BCS
Kevin D. Young, PhD	University of North Dakota	IDM
M. Rita Young, PhD	Medical University of South Carolina	ONC
Stephen K. Young, DDS	University of Oklahoma Health Sciences Center	ONC
Terri L. Young, MD	Children's Hospital of Philadelphia	BDCN
W. Scott Young, MD	National Institute of Mental Health	IFCN
Joanne M. Youngblut, PhD	Florida International University	HOP
Cedric X. Yu, DSc	University of Maryland Baltimore Professional School	ONC
Dihua Yu, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Jack C. Yu, DMD, MD	Medical College of Georgia	MSD
Lei Yu, PhD	University of Cincinnati	SRB
Xue-Jie Yu, MD, PhD	University of Texas Medical Branch	IDM
Yan Yu, PhD	University of Rochester Medical Center	ONC
Fan Yuan, PhD	Duke University	HEME
Kaizhi Yue, PhD	Conformational Search Solutions	BPC
Ming H. Yuk, PhD	University of Pennsylvania School of Medicine	GNS
Peter D. Yurchenco, MD, PhD	University of Medicine and Dentistry-Robert Wood Johnson Medical School	BCS
Deborah A. Yurgelun-Todd, PhD	McLean Hospital (Belmont, MA)	BDCN
Chino M. Yuzo, PhD	University of Houston	IFCN
Diane L. Zablotzky, PhD	University of North Carolina, Chapel Hill	RPHB
Laszlo Zaborszky, DSc, MD	Rutgers University	CDF
Robert Zackin, ScD	Harvard University School of Public Health	AARR

Richard A. Zager, MD	Fred Hutchinson Cancer Research Center	MSD
Mona E. Zaghoul, PhD	George Washington University	BCS
Habib Zaghoulani, PhD	University of Minnesota, Twin Cities	IMM
William N. Zagotta, PhD	University of Washington	MDCN
Daniel S. Zahm, PhD	St. Louis University	IFCN
John A. Zaia, MD, PhD	City of Hope/Beckman Research Institute	AARR
Joseph Zaia, PhD	Boston University	BPC
Qasim Zaidi, PhD	State College of Optometry	IFCN
Steve Zalcman, PhD	University of Medicine and Dentistry of New Jersey	IFCN
Michael R. Zalutsky, PhD	Duke University Medical Center	ONC, SRB
Robert Zand, PhD	University of Michigan	BCS
Maurizio Zanetti, MD	University of California, San Diego	AARR
Esmail D. Zanjani, PhD	In Vivo Technologies	CDF
Jane G. Zapka, ScD	University of Massachusetts Medical School	HOP
Maria L. Zapp, PhD	University of Massachusetts Medical School	AARR
Michael A. Zarate, PhD	University of Texas at El Paso	BBBP, RPHB
Helmut Zarbl, PhD	Fred Hutchinson Cancer Research Center	GNS
Edwin Zarling,	Veterans Affairs Serv	SRB
Reza Zarnegar, PhD	University of Pittsburgh	NMS, ONC
Boris Y. Zaslavsky, DPH	Analiza, Inc	IDM
Robert J. Zatorre, PhD	New York Academy of Sciences	BBBP
Jaclene A. Zauszniewski, PhD	Case Western Reserve University	HOP
Alex J. Zautra, PhD	Arizona State University	MSD
Nicholas Zavazava, MD, PhD	University of Iowa	IMM
Nasser H. Zawia, PhD	University of Rhode Island	BDCN
Maria Cecilia Zea, PhD	George Washington University	AARR
Phyllis C. Zee, MD, PhD	Northwestern University	RPHB
Adriana V. Zeevi, PhD	University of Pittsburgh	IMM
Leonard Zegans, MD	Langley Porter Psychiatric Institute	AARR
Scott L. Zeger, PhD	Johns Hopkins University	HOP
Mark L. Zeidel, MD	University of Pittsburgh	MSD
Ran C. Zeimer, PhD	Johns Hopkins University	BDCN, CDF, MDCN
Gregory J. Zelinsky, PhD	State University of New York at Stony Brook	BBBP
Gregory Zeltser, MD, PhD	Physical Optics Corporation	BBBP
Fan-Gang Zeng, PhD	University of California	IFCN
Jonathan M. Zenilman, MD	Johns Hopkins University	AARR
Joseph E. Zerwekh, PhD	University of Texas Southwestern Medical Center at Dallas	MSD
Dong-Er Zhang, PhD	Scripps Research Institute	ONC
Grant Zhang, PhD	University of Maryland School of Medicine	MSD
Heping Zhang, PhD	Yale University	BBBP, HOP
Jiajie Zhang, PhD	University of Houston	BPC, SRB
Michael Q. Zhang, PhD	Cold Spring Harbor Laboratory	GNS, ONC
Ruiwen Zhang, MD, PhD	University of Alabama at Birmingham	ONC
Su-Chun Zhang, MD, PhD	University of Wisconsin	BDCN
XuDong Zhang, PhD	University of Illinois at Urbana-Champaign	MSD
Ying E. Zhang, MD, PhD	Johns Hopkins University	IDM
Z. John Zhang, PhD	Georgia Institute of Technology	SRB
Zhuang-Yu Zhang, PhD	Mount Sinai School of Medicine	SRB
Hongyu Zhao, PhD	Yale University	HOP
J. K. Zhao, PhD	Oak Ridge National Laboratory	BPC
Lue Ping Zhao, PhD	Enodar Biologic Corporation	GNS
Pan Zheng, MD, PhD	Ohio State University	IMM
Jianhui Zhong, PhD	University of Rochester Medical Center	SRB
Pei Zhong, PhD	Healthtronics, Inc	MSD
Weimin Zhong, PhD	Yale University	MDCN
Jing Zhou, MD, PhD	Brigham and Women's Hospital	MSD
Ming-Ming Zhou, PhD	Mount Sinai School of Medicine	BPC
Xiao-Jian Zhou, PhD	Idenix Pharmaceuticals, Inc	AARR
Z. Jimmy Zhou, PhD	University of Arkansas For Medical Sciences	CDF
Guan Zhu, PhD	Texas A&M University System	AARR

Xiaowei Zhuang, PhD	Harvard University	BPC
Babak Ziaie, PhD	University of Minnesota	MDCN
Nicholas P. Ziats, PhD	Case Western Reserve University	IDM, SRB
Kirk H. Ziegler, PhD	Emory University School of Medicine	BPC, IDM, IMM
H. Ronald Zielke, PhD	University of Maryland Baltimore Professional School	HOP
James D. Zieske, PhD	Schepens Eye Research Institute	BDCN
Edward B. Ziff, PhD	New York University	MDCN
Tanja Zigova, PhD	University of South Florida	BDCN
Danna B. Zimmer, PhD	University of South Alabama	BCS
Warren E. Zimmer, PhD	University of South Alabama	BCS
Rick S. Zimmerman, PhD	University of Kentucky	AARR
Stuart O. Zimmerman, MD, PhD	University of Texas M.D. Anderson Cancer Center	ONC
Ellen M. Zimmermann, MD	University of Michigan	PPS
Michael J. Zinaman, MD	Loyola University Medical Center	NMS
M. Christine Zink, DVM, PhD	Johns Hopkins University School of Medicine	AARR
Barry R. Zirkin, PhD	Johns Hopkins University	NMS
Jordan K. Zjawiony, PhD	Elsohly Laboratories, Inc	CDF
Berislav V. Zlokovic, MD, PhD	University of Rochester	BDCN, CVS
Albert Zlotnik, PhD	Neurocrine Biosciences, Inc	BPC, IMM
Lori A. Zoellner, PhD	University of Washington	BBBP
Ai-Ping Zou, MD, PhD	National Institutes of Health	MSD
Irving H. Zucker, PhD	University of Nebraska Medical Center	CVS
Kenneth Zucker, PhD	University of North Carolina	RPHB
Robert A. Zucker, PhD	University of Michigan at Ann Arbor	RPHB
Robert S. Zucker, PhD	University of California	IFCN
Erik R.P. Zuiderweg, PhD	University of Michigan at Ann Arbor	BPC
Zofia Zukowska-Grojec, MD, PhD	Georgetown University	CVS
Patrick Zurek, PhD	Sensimetrics Corporation	IFCN
Mary M. Zutter, MD	Vanderbilt University	ONC
Michael J. Zvolensky, PhD	University of Vermont and State Agricultural College	BBBP
Joseph Zwischenberger, MD	MC3, Inc	SRB
Arturo Zychlinsky, PhD	Max Planck Institute For Infection Biology	IDM

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## Appendix 2: Applications reviewed in CSR in fiscal year 2003, by Council round and by activity codes

Activity	January 2003	May 2003	October 2003	Total	Percent
D43		34	37	71	0.17%
F30	3	5	6	14	0.03%
F31	107	327	285	719	1.74%
F32	521	826	683	2,030	4.90%
F33	9	8	14	31	0.07%
G08		1		1	0.00%
K01	22	27	52	101	0.24%
K02	8	7	5	20	0.05%
K05		1	2	3	0.01%
K08	14	10	11	35	0.08%
K12			1	1	0.00%
K14	1			1	0.00%
K22		1		1	0.00%
K23	16	25	17	58	0.14%
K24	6	4	6	16	0.04%
K25	3	6	9	18	0.04%
P01	9	12	9	30	0.07%
P20	11	26	1	38	0.09%
P40		2		2	0.00%
P41	3	17	10	30	0.07%
R01	7,401	8,800	9,704	25,905	62.58%
R03	259	259	387	905	2.19%
R13	19	32	25	76	0.18%
R15	181	192	194	567	1.37%
R21	752	1,072	1,908	3,732	9.01%
R24	2	1	9	12	0.03%
R25	8	40	25	73	0.18%
R33	14	22	14	50	0.12%
R34		1	2	3	0.01%
R37	26	31	3	60	0.14%
R41	110	140	166	416	1.00%
R42	14	26	21	61	0.15%
R43	1,391	1,621	1,772	4,784	11.56%
R44	319	378	371	1,068	2.58%
R55	1	1	1	3	0.01%
S10	198		126	324	0.78%
T15	5		18	23	0.06%
T35			5	5	0.01%
U01	11	3	14	28	0.07%
U13	1			1	0.00%
U24		2		2	0.00%
U44			1	1	0.00%
U54	7	5	67	79	0.19%
<b>Total</b>	<b>11,452</b>	<b>13,965</b>	<b>15,981</b>	<b>41,398</b>	<b>100.00%</b>

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### Appendix 3: Applications Reviewed by CSR by Funding IC

IC	Council			Total	Percent
	January 2003	May 2003	October 2003		
NIAAA	110	153	174	437	1.06%
NIA	403	501	510	1414	3.42%
NIAID	1248	1819	1867	4934	11.92%
NIAMS	363	420	374	1157	2.79%
NCCAM	52	56	73	181	0.44%
NCI	1776	2091	2397	6264	15.13%
NIDA	324	372	361	1057	2.55%
NIDCD	155	184	195	534	1.29%
NIDCR	173	182	187	542	1.31%
NIDDK	907	1042	1306	3255	7.86%
NIBIB	181	302	1245	1728	4.17%
NIEHS	255	222	234	711	1.72%
NEI	282	363	320	965	2.33%
NIGMS	1282	1533	1551	4366	10.55%
NICHD	567	696	774	2037	4.92%
NHGRI	106	118	113	337	0.81%
NHLBI	1099	1357	1440	3896	9.41%
NLM	23	35	24	82	0.20%
NCMHD		1		1	0.00%
NIMH	812	1033	1021	2866	6.92%
NINR	103	164	164	431	1.04%
NINDS	848	1045	1070	2963	7.16%
NCRR	286	138	337	761	1.84%
FIC	9	122	190	321	0.78%
Non-NIH <sup>14</sup>	88	16	54	158	0.38%
Total	11452	13965	15981	41398	100%

<sup>14</sup> Includes the CDC, FDA, AHRQ, and other PHS agencies for which CSR occasionally reviews applications